

GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: December 28, 2002, 15:40:17 : Search time 371.501 Seconds  
(without alignments)  
11372.097 Million cell updates/sec

Title: US-09-944-896-49

Perfect score: 1876

Sequence: 1 cctctttgtccaccagccca.....tcagctgaaaaaaaaaaaaa 1876

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : N\_Geneseq\_101002.\*

1: /SID22/gcgdata/geneseq/geneseq-emb1/NA1980.DAT.\*  
2: /SID22/gcgdata/geneseq/geneseq-emb1/NA1981.DAT.\*  
3: /SID22/gcgdata/geneseq/geneseq-emb1/NA1982.DAT.\*  
4: /SID22/gcgdata/geneseq/geneseq-emb1/NA1983.DAT.\*  
5: /SID22/gcgdata/geneseq/geneseq-emb1/NA1984.DAT.\*  
6: /SID22/gcgdata/geneseq/geneseq-emb1/NA1985.DAT.\*  
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21: /SID22/gcgdata/geneseq/geneseq-emb1/NA2000.DAT.\*  
22: /SID22/gcgdata/geneseq/geneseq-emb1/NA2001A.DAT.\*  
23: /SID22/gcgdata/geneseq/geneseq-emb1/NA2001B.DAT.\*  
24: /SID22/gcgdata/geneseq/geneseq-emb1/NA2002.DAT.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

| Result No. | Query  | Score | Match | Length | DB        | ID | Description                            |
|------------|--------|-------|-------|--------|-----------|----|--|
| 1          | 1876   | 100.0 | 1876  | 20     | AA87260   |    | CDNA clone encoding human PRO347 nucle |
| 2          | 1876   | 100.0 | 1876  | 20     | AA80053   |    | CDNA encoding nove                     |
| 3          | 1876   | 100.0 | 1876  | 21     | AAA46918  |    | Human PRO347 cDNA.                     |
| 4          | 1876   | 100.0 | 1876  | 21     | AAA49561  |    | Human secreted pro                     |
| 5          | 1776.2 | 94.7  | 1923  | 22     | AAAF24152 |    | Human T139 protein                     |
| 6          | 1751   | 93.3  | 1856  | 20     | AAZ23299  |    | Human T139 protein                     |
| 7          | 1751   | 93.3  | 1856  | 24     | AD33531   |    | Human T139 (TANGO-                     |
| 8          | 1729.8 | 92.2  | 1786  | 22     | AAK94246  |    | Human full-length                      |
| 9          | 1721   | 91.7  | 1775  | 22     | AAAD12570 |    | Human protein havi                     |

|    |       |      |      |    |           |                    |
|----|-------|------|------|----|-----------|--------------------|
| 10 | 1636  | 87.2 | 1934 | 23 | AA591790  | DNA encoding novel |
| 11 | 1293  | 68.9 | 1338 | 20 | AA223300  | Human T139 protein |
| 12 | 889.4 | 47.4 | 1519 | 23 | AA576344  | DNA encoding novel |
| 13 | 766.6 | 40.9 | 906  | 23 | AA576343  | DNA encoding novel |
| 14 | 672.8 | 35.9 | 690  | 21 | AAA70010  | Human ovarian carc |
| 15 | 672.8 | 35.9 | 690  | 24 | ABN72904  | Ovarian carcinoma  |
| 16 | 617   | 32.9 | 855  | 21 | AA520926  | Human Protease and |
| 17 | 518   | 27.6 | 602  | 23 | AA581209  | DNA encoding novel |
| 18 | 451   | 24.0 | 517  | 22 | AAH98469  | Human EST-derived  |
| 19 | 432.6 | 23.1 | 512  | 22 | AAK91830  | Human CDNA 5'-end  |
| 20 | 432.6 | 23.1 | 512  | 22 | AAK93233  | Human CDNA clone r |
| 21 | 234.8 | 12.5 | 792  | 23 | AA576345  | DNA encoding novel |
| 22 | 191.2 | 10.2 | 3660 | 23 | AA588505  | DNA encoding novel |
| 23 | 191.2 | 10.2 | 3660 | 23 | AA589242  | DNA encoding novel |
| 24 | 144.8 | 7.7  | 3660 | 23 | AA588505  | DNA encoding novel |
| 25 | 144.8 | 7.7  | 3660 | 23 | AA589242  | DNA encoding novel |
| 26 | 137.4 | 7.3  | 480  | 23 | AA581207  | DNA encoding novel |
| 27 | 133.2 | 7.1  | 1482 | 23 | AA581210  | DNA encoding novel |
| 28 | 129.4 | 6.9  | 168  | 23 | AA591789  | DNA encoding novel |
| 29 | 95.8  | 5.1  | 915  | 23 | AA581206  | DNA encoding novel |
| 30 | 94.6  | 5.0  | 1239 | 23 | AA573137  | DNA encoding novel |
| 31 | 56.8  | 3.0  | 1759 | 24 | ABL57727  | Human sbg1002620TI |
| 32 | 56.8  | 3.0  | 1494 | 24 | ABL57728  | Human sbg1002620TI |
| 33 | 56.8  | 3.0  | 3483 | 24 | AAAD38692 | Human LP095 secret |
| 34 | 55.2  | 2.9  | 939  | 22 | AAH98687  | Rat EST-derived co |
| 35 | 55.2  | 2.9  | 1491 | 22 | AAAF7686  | Human protease-inh |
| 36 | 55.2  | 2.9  | 1669 | 22 | AAAD1765  | Human novel trypsi |
| 37 | 55.2  | 2.9  | 1690 | 22 | AAH15690  | Human CDNA sequenc |
| 38 | 55.2  | 2.9  | 1824 | 24 | ABK33563  | CDNA encoding huma |
| 39 | 55.2  | 2.9  | 2272 | 22 | AAAF7687  | Human protease-inh |
| 40 | 55.2  | 2.9  | 3836 | 24 | AAAL39682 | Human secreted pro |
| 41 | 55.2  | 2.9  | 4877 | 22 | AA560871  | Human cancer agent |
| 42 | 55.2  | 2.9  | 4877 | 22 | AA560872  | Human cancer agent |
| 43 | 55.2  | 2.9  | 4877 | 22 | AA560883  | Human novel trypsi |
| 44 | 55    | 2.9  | 2403 | 22 | AAAD1766  | Human CDNA clone ( |
| 45 | 54.6  | 2.9  | 840  | 22 | AAH05058  |                    |

#### ALIGNMENTS

#### RESULT 1

AA87260

ID AA87260 standard; cDNA; 1876 BP.

XX AA87260;

AC AA87260;

XX 27-SEP-1999 (first entry)

XX CDNA clone encoding human PRO347, amplified in tumour cells.

DE PRO347; UNQ306; cancer; tumour; diagnosis; therapy; human; ss.

KW PRO347; UNQ306; cancer; tumour; diagnosis; therapy; human; ss.

XX Homo sapiens.

OS Homo sapiens.

XX Key

XX Location/Qualifiers

XX CDS

XX 123..1490

XX /\*tag= a

XX sig\_peptide

XX 123..200

XX /\*tag= b

XX mat\_peptide

XX 201..1487

XX /\*tag= c

XX WO9935170-A2.

XX 15-JUL-1999.

XX 05-JAN-1999;

XX 98US-0109304.

XX 98US-0070440.

XX 98US-0083500.

XX 98US-0086414.





Db 1621 AATGCCAAGTTGGCAGAGAGAGCAGGAGCCAGTCCAGGCGCCAGGAGTGAAGTGT 1680  
 Qy 1681 AGAAGAAGCTGGGGCCCTTCGCCTGCTTTGATTTGGGAAGATGGCTTCAATTAGATGGC 1740  
 Db 1681 AGAAGAAGCTGGGGCCCTTCGCCTGCTTTGATTTGGGAAGATGGCTTCAATTAGATGGC 1740  
 Qy 1741 GAAGGAGAGACACCGCCAGTGTGTCACAAAAGGCTGCTCTTCCACCTGGCCAGACCC 1800  
 Db 1741 GAAGGAGAGACACCGCCAGTGTGTCACAAAAGGCTGCTCTTCCACCTGGCCAGACCC 1800  
 Qy 1801 TGTGGGCGACGGAGCTTCCTCTGGCATGAACCCACGGGGTATTAAATTTATGAATCAG 1860  
 Db 1801 TGTGGGCGACGGAGCTTCCTCTGGCATGAACCCACGGGGTATTAAATTTATGAATCAG 1860  
 Qy 1861 CTGAAAAAATAAAAA 1876  
 Db 1861 CTGAAAAAATAAAAA 1876

RESULT 2  
 AAX80053  
 ID AAX80053 standard; cDNA; 1876 BP.  
 XX AC AAX80053;  
 XX DT 12-AUG-1999 (first entry)  
 XX DE Human PRO347 nucleotide sequence.  
 XX KW Human; PRO protein; tumour necrosis factor family; TNF; cytokine;  
 KW secreted protein; transmembrane protein; inflammation disorder; ss.  
 XX OS Homo sapiens.  
 XX PN W09928462-A2.  
 XX PD 10-JUN-1999.  
 XX PF 01-DEC-1998; 98WO-US25108.  
 XX PR 25-FEB-1998; 98US-0075945.  
 PR 03-DEC-1997; 97US-0067411.  
 PR 11-DEC-1997; 97US-0069278.  
 PR 11-DEC-1997; 97US-0069334.  
 PR 11-DEC-1997; 97US-0069335.  
 PR 12-DEC-1997; 97US-0069425.  
 PR 16-DEC-1997; 97US-0069694.  
 PR 16-DEC-1997; 97US-0069696.  
 PR 16-DEC-1997; 97US-0069702.  
 PR 17-DEC-1997; 97US-0069870.  
 PR 18-DEC-1997; 97US-0068017.  
 PR 05-JAN-1998; 98US-0070440.  
 PR 09-FEB-1998; 98US-0074086.  
 PR 09-FEB-1998; 98US-0074092.  
 XX (GETH ) GENENTECH INC.

XX Baker KP, Chen J, Goddard A, Gurney AL, Wood WI;  
 PI Yuan J;  
 XX WPI: 1999-371118/31.  
 DR P-PSDB: AAY17828.  
 XX Nucleic acids encoding PRO secreted and transmembrane proteins  
 PT Claim 2; Fig 22; 123pp; English.  
 XX The present invention describes nucleic acids encoding PRO secreted and  
 CC transmembrane proteins used therapeutically. The PRO proteins have  
 CC cyostatic, anti-inflammatory, anti-proliferative and immunosuppressive  
 CC activity. The proteins and polynucleotides can be used in therapy,  
 CC identification of homologues, raising antibodies and design of probes

CC and primers. They can be used in a range of diseases related to proteins  
 CC that they have homology with, e.g. a PRO protein having homology to  
 CC complement proteins may be used in inflammatory responses.  
 XX Sequence 1876 BP; 387 A; 568 C; 574 G; 347 T; 0 other;  
 SQ Query Match 100.0%; Score 1876; DB 20; Length 1876;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 1 CTCCTTTTCCACCAGCCAGCTGACTCTCTGGAGATTTGAATAGTCTCATCCAGCGCTG 60  
 Db 1 CTCCTTTTCCACCAGCCAGCTGACTCTCTGGAGATTTGAATAGTCTCATCCAGCGCTG 60  
 Qy 61 AGAAACAAAGCCGGTGGCTGACGAGCTGTGCACGAGCAGCCTGACGGGCCCAACAGAC 120  
 Db 61 AGAAACAAAGCCGGTGGCTGACGAGCTGTGCACGAGCAGCCTGACGGGCCCAACAGAC 120  
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 Db 121 CCATGCTGCATCCAGAGACCTCCCTTGGCCGGGGGCAATCTCTTGCTGTGTCTCTGGGCC 180  
 Qy 181 TCCCTGGCAGCCTGGGAGAGCTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGG 240  
 Db 181 TCCCTGGCAGCCTGGGAGAGCTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGG 240  
 Qy 241 CCGGAGCCCTGAACAGAGAGAGAGTTCCTTGTCTCTCTCTGCAACACCCCTGGGCA 300  
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 Qy 361 AACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCAGCCTGGCATCCGGCC 420  
 Db 361 AACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCAGCCTGGCATCCGGCC 420  
 Qy 421 TGTGGCGCAGCCCTGCAAGTGGCTGGAACATGACAGTGTCTCCCGCGGCTTGGGCTCT 480  
 Db 421 TGTGGCGCAGCCCTGCAAGTGGCTGGAACATGACAGTGTCTCCCGCGGCTTGGGCTCT 480  
 Qy 481 TTCTTGAAGTGGTACGCTATGTTTGCAGAGGGGAGCGGTACAGCCACGCGGAGAG 540  
 Db 481 TTCTTGAAGTGGTACGCTATGTTTGCAGAGGGGAGCGGTACAGCCACGCGGAGAG 540  
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 Db 541 AGTGTCTCCAGCCACCTGCAACCTACACGCTGTGTGGGCGGCTCAAGCC 600  
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 Db 601 AGCTGGGCTGTGGGCGGCACTGTGTCTGCAGGCGCAGACGAGGATAGAGGCTTTGTCT 660  
 Qy 661 GTGCCTACTCCCGGAGGCAACTGGGAGGTCAACGGGAAGACAATCATCCCTATAAGA 720  
 Db 661 GTGCCTACTCCCGGAGGCAACTGGGAGGTCAACGGGAAGACAATCATCCCTATAAGA 720  
 Qy 721 AGGTGGCTGTGTCTGCTGCAGCAGCTGTCTCAGGCTGTCTCAAGGCTGGGAC 780  
 Db 721 AGGTGGCTGTGTCTGCTGCAGCAGCTGTCTCAGGCTGTCTCAAGGCTGGGAC 780  
 Qy 781 ATGAGGGGGGCTGTGTGAGTCCCGAGGATCTTGTGCATGAGCTGCCAGAACCAATG 840  
 Db 781 ATGAGGGGGGCTGTGTGAGTCCCGAGGATCTTGTGCATGAGCTGCCAGAACCAATG 840  
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 Db 901 GCCAAGTGAAGTGCAGCTGTGTGCGAGGCGGCTTCCGGGAGGAGGAGTGTCTCT 960

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Db 1381 TGCAGGCTTTCAGTGTCTTCACTGAAACGACAGCAGCTGCAAAACCCGAAACCGTTACA 1440
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Db 1441 TCTGCCAGTTTGGCCAGGAGCAGATCTCCCGTGGGGCCCGAGGCTCTGAGGCTGACCA 1500
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Db 1501 CATGGCTCCCTCGCCTGCGCTGGAGCAGCGCTCTGCTTACCTGTCTGCCACCTGTCT 1560
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Db 1681 AGAAGAAGCTGGGCGCTTCCGCTGCTTTGATTTGGAGATGGGCTTCAATTAGATGGC 1740
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Db 1741 GAAGGAGAGGACACCGCCAGTGTGTCAAAAGGCTGCTCTCTTCCACCTGGCCCGACACC 1800
QY 1801 TGTGGGGCAGGAGCTTCCCTGTGGATGAACCCACCGGGGTATTAATTAATGATCAG 1860
Db 1801 TGTGGGGCAGGAGCTTCCCTGTGGATGAACCCACCGGGGTATTAATTAATGATCAG 1860
QY 1861 CTGAAAAAATAAAAAA 1876
Db 1861 CTGAAAAAATAAAAAA 1876
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RESULT 3

AAA46918

ID AAA46918 standard; cDNA; 1876 BP.

XX

AC

XX

DT 03-OCT-2000 (first entry)

XX

DE

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cDNA encoding novel polypeptide PRO347.

PRO201; PRO292; PRO327; PRO1265; PRO344; PRO343; PRO347; PRO357;  
PRO15; PRO1017; PRO1112; PRO509; PRO853; PRO882; tumour cell;  
tumorigenesis; cancer; neoplastic cell growth; cell proliferation; ss.

Homo sapiens.

Key Location/Qualifiers

CDS 123..1490

/\*tag= a

WO200037640-A2.

29-JUN-2000.

16-DEC-1999; 99WO-US30095.

22-DEC-1998; 98US-0113296.

08-MAR-1999; 99WO-US05028.

02-JUN-1999; 99WO-US12252.

01-SEP-1999; 99WO-US20111.

15-SEP-1999; 99WO-US21090.

30-NOV-1999; 99WO-US28313.

30-NOV-1999; 99WO-US28409.

01-DEC-1999; 99WO-US28301.

02-DEC-1999; 99WO-US28565.

(GETH ) GENENTECH INC.

Botstein D, Goddard A, Gurney AL, Hillan K, Lawrence DA, Roy MA;  
Wood WI;

WPI: 2000-452188/39.

P-PSDB; AAY93690.

New anti-polypeptide antibody useful in the treatment and diagnosis of  
neoplastic cell growth and proliferation -

Claim 50; Fig 13; 220pp; English.

The present sequence encodes a novel human polypeptide. The  
specification describes novel polypeptides designated PRO201, PRO292,  
PRO327, PRO1265, PRO344, PRO343, PRO347, PRO357, PRO115, PRO1017,  
PRO1112, PRO509, PRO853 and PRO882. These genes are amplified in  
the genome of tumour cells. The polypeptides are believed to contribute  
to tumorigenesis. The polypeptides are useful target for the  
identification of certain cancers, and may act as predictors of the  
prognosis of tumour treatment. Antibodies against these polypeptides  
are useful in the treatment and diagnosis of neoplastic cell growth  
and proliferation in mammals.

Sequence 1876 BP; 387 A; 568 C; 574 G; 347 T; 0 other;

Query Match 100.0%; Score 1876; DB 21; Length 1876;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCTTTTGTCCACGAGCCGCTGCTGAGAGATTGTGAATAGTCCATCCAGCCTG 60

Db 1 CTCTTTTGTCCACGAGCCGCTGCTGAGAGATTGTGAATAGTCCATCCAGCCTG 60

QY 61 AGAAACAAGCCGGTGTGCTGAGCCAGGCTGTGCAGGAGCCTGACGGGCCACAGAC 120

Db 61 AGAAACAAGCCGGTGTGCTGAGCCAGGCTGTGCAGGAGCCTGACGGGCCACAGAC 120

QY 121 CCATGCTGCATCCAGACACCTCCCTGCGGGGGGCATCTCTGCTGTGCTTGGGCC 180

Db 121 CCATGCTGCATCCAGACACCTCCCTGCGGGGGGCATCTCTGCTGTGCTTGGGCC 180

QY 181 TCCTTGGCACCACCTGGGCGAGAGTGTGGCCACCCAGCTCAGAGAGGCTCCGATGG 240

Db 181 TCCTTGGCACCACCTGGGCGAGAGTGTGGCCACCCAGCTCAGAGAGGCTCCGATGG 240

|      |  |      |
|------|--|------|
| 181  | TCTTTGGCACCAACTGGGCAGAGGTTGGCCACACCAGCTCGAGAGCAGGCTCCGATGG     | 240  |
| Db   |  |      |
|      |  |      |
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| 241  | CCGGAGCCCTGAACAGAAGAGAGTTCCTTGCTCTCTCCCTGCCACAAACGCTTGCGCA     | 300  |
| Qy   |  |      |
|      |  |      |
|      |  |      |
| 241  | CCGGAGCCCTGAACAGAAGAGAGTTCCTTGCTCTCTCCCTGCCACAAACGCTTGCGCA     | 300  |
| Db   |  |      |
|      |  |      |
|      |  |      |
| 301  | GCTGGGTCCAGCCCCCTGCGGCTGACATCGGAGGCTGGAGTGGAGTACAGAGCTGGCCC    | 360  |
| Qy   |  |      |
|      |  |      |
|      |  |      |
| 301  | GCTGGGTCCAGCCCCCTGCGGCTGACATCGGAGGCTGGAGTGGAGTACAGAGCTGGCCC    | 360  |
| Db   |  |      |
|      |  |      |
|      |  |      |
| 361  | AACHTGGCTCAAGCCAGGGCAGCCCTCTGTGGAATCCAAACCCGAGCCTGGCATCCGGCC   | 420  |
| Qy   |  |      |
|      |  |      |
|      |  |      |
| 361  | AACHTGGCTCAAGCCAGGGCAGCCCTCTGTGGAATCCCAACCCGAGCCTGGCATCCGGCC   | 420  |
| Db   |  |      |
|      |  |      |
|      |  |      |
| 421  | TGTGGCGCAOCCCTGCAAGTGGGTGGAACATGACATGAGCTGTGCTGCCGGGGCTTGGGTCT | 480  |
| Qy   |  |      |
|      |  |      |
|      |  |      |
| 421  | TGTGGCGCAOCCCTGCAAGTGGGTGGAACATGACATGAGCTGTGCTGCCGGGGCTTGGGTCT | 480  |
| Db   |  |      |
|      |  |      |
|      |  |      |
| 481  | TTGTTGAAGTGGTCAGACTATGTTTTGCAGAGGGGACGGGTACAGCCACGCGGACGAG     | 540  |
| Qy   |  |      |
|      |  |      |
|      |  |      |
| 481  | TTGTTGAAGTGGTCAGACTATGTTTTGCAGAGGGGACGGGTACAGCCACGCGGACGAG     | 540  |
| Db   |  |      |
|      |  |      |
|      |  |      |
| 541  | ASTGTGCTGCGAACGCCAACCCTGCACCOACTACACGAGCTCTGTGTGGGCCACTCAAGCC  | 600  |
| Qy   |  |      |
|      |  |      |
|      |  |      |
| 541  | ASTGTGCTGCGAACGCCAACCCTGCACCOACTACACGAGCTCTGTGTGGGCCACTCAAGCC  | 600  |
| Db   |  |      |
|      |  |      |
|      |  |      |
| 601  | AGCTGGGCTGTGGGGGCACTGTGCTCTCGAGGCCAGACGCGATAGAAGCCTTTGTCT      | 660  |
| Qy   |  |      |
|      |  |      |
|      |  |      |
| 601  | AGCTGGGCTGTGGGGGCACTGTGCTCTCGAGGCCAGACGCGATAGAAGCCTTTGTCT      | 660  |
| Db   |  |      |
|      |  |      |
|      |  |      |
| 661  | GTGCCCTACTCCCGGGAGGCAACTGGGAGTCAACGGGAGACAATCATCCCTATAAGA      | 720  |
| Qy   |  |      |
|      |  |      |
|      |  |      |
| 661  | GTGCCCTACTCCCGGGAGGCAACTGGGAGTCAACGGGAGACAATCATCCCTATAAGA      | 720  |
| Db   |  |      |
|      |  |      |
|      |  |      |
| 721  | AGGGTCCTGGTFTTCGCTCTGCACACCCAGTGTCTCAGGCTGTCTCAAGCCTGGACC      | 780  |
| Qy   |  |      |
|      |  |      |
|      |  |      |
| 721  | AGGGTCCTGGTFTTCGCTCTGCACACCCAGTGTCTCAGGCTGTCTCAAGCCTGGACC      | 780  |
| Db   |  |      |
|      |  |      |
|      |  |      |
| 781  | ATGCAAGGGGGCTGTGAGTCCCCCAGGAATCCTTGTGCATGAGTCCCGAAGCAATG       | 840  |
| Qy   |  |      |
|      |  |      |
|      |  |      |
| 781  | ATGCAAGGGGGCTGTGAGTCCCCCAGGAATCCTTGTGCATGAGTCCCGAAGCAATG       | 840  |
| Db   |  |      |
|      |  |      |
|      |  |      |
| 841  | GACGTCTCAACATGACACTGCCACTGTCCCTTGGCTACACGGGAGATACT             | 900  |
| Qy   |  |      |
|      |  |      |
|      |  |      |
| 841  | GACGTCTCAACATGACACTGCCACTGTCCCTTGGCTACACGGGAGATACT             | 900  |
| Db   |  |      |
|      |  |      |
|      |  |      |
| 901  | GCCAAGTAGGTGACGCTGCAGTGTGTGCACGGCCGGTTCCGGGAGGAGAGTGTCTGT      | 960  |
| Qy   |  |      |
|      |  |      |
|      |  |      |
| 901  | GCCAAGTAGGTGACGCTGCAGTGTGTGCACGGCCGGTTCCGGGAGGAGAGTGTCTGT      | 960  |
| Db   |  |      |
|      |  |      |
|      |  |      |
| 961  | GGTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCACAGAGTGCAATTTCCCTTCC       | 1020 |
| Qy   |  |      |
|      |  |      |
|      |  |      |
| 961  | GGTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCACAGAGTGCAATTTCCCTTCC       | 1020 |
| Db   |  |      |
|      |  |      |
|      |  |      |
| 1021 | ACACCTGTACCTGAGGATCGACGAGACTGCTTCATGGTGTCTTCAGAGGCAGACACCT     | 1080 |
| Qy   |  |      |
|      |  |      |
|      |  |      |
| 1021 | ACACCTGTACCTGAGGATCGACGAGACTGCTTCATGGTGTCTTCAGAGGCAGACACCT     | 1080 |
| Db   |  |      |
|      |  |      |
|      |  |      |
| 1081 | ATTACAGAGCCAGGATGAAATGTCAGAGAAAGCGGGTGTCTTCAGAGGCAGACACCT      | 1140 |
| Qy   |  |      |
|      |  |      |
|      |  |      |
| 1081 | ATTACAGAGCCAGGATGAAATGTCAGAGAAAGCGGGTGTCTTCAGAGGCAGACACCT      | 1140 |
| Db   |  |      |
|      |  |      |
|      |  |      |
| 1141 | AGAAAGTCAGGACATCTTCGGCTTCTATCTGGGGCGCTTGGAGACACCAACGAGGTGA     | 1200 |
| Qy   |  |      |
|      |  |      |
|      |  |      |
| 1141 | AGAAAGTCAGGACATCTTCGGCTTCTATCTGGGGCGCTTGGAGACACCAACGAGGTGA     | 1200 |
| Db   |  |      |
|      |  |      |
|      |  |      |
| 1201 | CTGACAGTGACTTCGAGACACAGGAATCTTGATCGGGCTCACCTACAAGACGCCAAGG     | 1260 |
| Qy   |  |      |
|      |  |      |
|      |  |      |
| 1201 | CTGACAGTGACTTCGAGACACAGGAATCTTGATCGGGCTCACCTACAAGACGCCAAGG     | 1260 |
| Db   |  |      |
|      |  |      |
|      |  |      |
| 1261 | ACTCTTCCGCTGGGCGCACAGGGGAGCACCGGCTTCAACAGTTTTCCTTTGGGGCAGC     | 1320 |
| Qy   |  |      |
|      |  |      |
|      |  |      |
| 1261 | ACTCTTCCGCTGGGCGCACAGGGGAGCACCGGCTTCAACAGTTTTCCTTTGGGGCAGC     | 1320 |
| Db   |  |      |
|      |  |      |
|      |  |      |

|          |   |  |      |
|----------|---|--|------|
| Qy       | 1321  | CTGACAAACACGCGGTGTGTGGCTGAGTGTCTGCCATGGGGTTTGGCACTCCGTGGAGC    | 1380 |
| Db       | 1321  | CTGCAACACGCGGTGTGTGGCTGAGTGTCTGCCATGGGGTTTGGCACTCCGTGGAGC      | 1380 |
| Qy       | 1381  | TGCAGGCTTCAGCTGCCTTTCAACTGGAACGACGCGTGTCAAAACCCGAAACCGTTACA    | 1440 |
| Db       | 1381  | TGCAGGCTTCAGCTGCCTTTCAACTGGAACGACGCGTGTCAAAACCCGAAACCGTTACA    | 1440 |
| Qy       | 1441  | TCTGCCAGTTTCCCAGGAGCACATCTCCCGGTGGGGGCCACGGTCTGAGGCGTGACCA     | 1500 |
| Db       | 1441  | TCTGCCAGTTTCCCAGGAGCACATCTCCCGGTGGGGGCCACGGTCTGAGGCGTGACCA     | 1500 |
| Qy       | 1501  | CATGCTCCCTCGCCTGCCCTGGGAGCACCGGCTCTGCTTACCTGTCTGCCACCTGTCT     | 1560 |
| Db       | 1501  | CATGCTCCCTCGCCTGCCCTGGGAGCACCGGCTCTGCTTACCTGTCTGCCACCTGTCT     | 1560 |
| Qy       | 1561  | GGAACAAGGCGCCAGGTTAAGACACATGCCTCATGTCTCCAAAGAGGTCTCAGACCTTGCAC | 1620 |
| Db       | 1561  | GGAACAAGGCGCCAGGTTAAGACACATGCCTCATGTCTCCAAAGAGGTCTCAGACCTTGCAC | 1620 |
| Qy       | 1621  | AATGCCAGAAGTTGGCGACAGAGAGGACGAGGAGCCAGTTCAGGGCCAGGAGTGAAGTGT   | 1680 |
| Db       | 1621  | AATGCCAGAAGTTGGCGACAGAGAGGACGAGGAGCCAGTTCAGGGCCAGGAGTGAAGTGT   | 1680 |
| Qy       | 1681  | AGAAGAAGCTGGGGCCCTTCGCCTTCCTTTGATTGGGAAGATGGGCTTCAATTAGATGGC   | 1740 |
| Db       | 1681  | AGAAGAAGCTGGGGCCCTTCGCCTTCCTTTGATTGGGAAGATGGGCTTCAATTAGATGGC   | 1740 |
| Qy       | 1741  | GAAGGAGAGGACACCCGCAAGTGTGTCCAAAAGGCTCTCTCTTCCACCTGGCCCCAGACCC  | 1800 |
| Db       | 1741  | GAAGGAGAGGACACCCGCAAGTGTGTCCAAAAGGCTCTCTCTTCCACCTGGCCCCAGACCC  | 1800 |
| Qy       | 1801  | TGTGGGCGACGGAGCTTCCTCTGTGGATGAACCCACCGGGTATTAAATTGAATCAG       | 1860 |
| Db       | 1801  | TGTGGGCGACGGAGCTTCCTCTGTGGATGAACCCACCGGGTATTAAATTGAATCAG       | 1860 |
| Qy       | 1861  | CTCAAAAAAATAAAAAA 1876   |      |
| Db       | 1861  | CTCAAAAAAATAAAAAA 1876   |      |
| RESULT 4 |   |  |      |
| ID       | AAAA9561  |  |      |
| XX       | AAAA9561 standard; cDNA; 1876 BP.                                 |  |      |
| AC       | AAAA9561;   |  |      |
| XX       |   |  |      |
| DT       | 25-SEP-2000 (first entry)   |  |      |
| XX       |   |  |      |
| DE       | Human PRO347 cDNA.  |  |      |
| XX       |   |  |      |
| KW       | PRO; membrane bound protein; secreted protein; PRO357; PRO327;    |  |      |
| KW       | PRO243; PRO175; PRO243; PRO299; PRO233; PRO344; PRO347;           |  |      |
| KW       | PRO355; PRO363; PRO361; PRO365; transmembrane polypeptide;        |  |      |
| KW       | antibody; screening; detection; inhibition; probe; primer; human; |  |      |
| KW       | SS.   |  |      |
| XX       |   |  |      |
| OS       | Homo sapiens.   |  |      |
| XX       |   |  |      |
| FH       | Key   |  |      |
| FT       | CDS   |  |      |
| FT       | 123..1490   |  |      |
| FT       | /*tag= a  |  |      |
| FT       | /product= PRO347 polypeptide                                      |  |      |
| XX       |   |  |      |
| PN       | WO200032776-A2.   |  |      |
| XX       |   |  |      |
| PD       | 08-JUN-2000.  |  |      |
| XX       |   |  |      |
| PF       | 01-DEC-1999; 99WO-US28301.  |  |      |
| XX       |   |  |      |
| PR       | 01-DEC-1998; 98WO-US25108.  |  |      |
| PR       | 16-DEC-1998; 98US-O112850.  |  |      |



|    |      |  |      |
|----|------|--|------|
| Db | 1681 | AGAAGAAGCTGGGGCCCTTCGCCTGCTTTTCATTGGGAAGATGGGCTTCAATTAGATGCG | 1740 |
| Qy | 1741 | GAAGGAGAGGACACCGCCAGTGGTCCAAAAGAGGTGCTCTCTTCCACCTGGCCCGACGCC | 1800 |
| Db | 1741 | GAAGGAGAGGACACCGCCAGTGGTCCAAAAGAGGTGCTCTCTTCCACCTGGCCCGACGCC | 1800 |
| Qy | 1801 | TGTGGGGCAGCGGAGCTTCCCTGTGGCATGAACCCCGGGTATTAAATTATGAATCAG    | 1860 |
| Db | 1801 | TGTGGGGCAGCGGAGCTTCCCTGTGGCATGAACCCCGGGTATTAAATTATGAATCAG    | 1860 |
| Qy | 1861 | CTGAAAAAIAAAAAAAAAA  | 1876 |
| Db | 1861 | CTGAAAAAIAAAAAAAAAA  | 1876 |

RESULT 5  
AAF24152  
ID AAF24152 standard: DNA: 1923 BP.

XX AAF24152;  
AC

XX  
DT 23-MAR-2001 (first entry)XX  
DE Human secreted protein DNA #2.

Secreted protein; gene therapy; vaccine; cancer; leukemia; autoimmune disease; allergy; inflammation; graft rejection; hyperproliferation; cardiovascular; infection; ds.

XX Homo sapiens. OS

AA  
PN  
WO200075375-A1.

PD 14-DEC-2000.

02-JUN-2000; 2000WO-US15187.

XX  
PR 07-JUN-1999; 99US-0137725.

XX  
PA (HUMA-) HUMAN GENOME SCI INC.

XX  
PI Ruben SM, Birse CE, Duan RD, Soppet DR, Rosen CA, Shi Y;  
XX Jaflaur DW, Olsen HS, Ehner R, Florence KA, Ni J, Young

XX  
DR WPI: 2001-061741/07.

|    |  |
|----|--|
| XX | Nucleic acids encoding 26 human secreted polypeptides, useful e.g. for |
| PT | preventing, diagnosing and/or treating cancers and for promoting wound |
| PT | healing -  |
| PT |  |

PS Claim 1; Page 416-417; 530pp; English.

xx The present invention relates to 26 secreted human proteins. The  
CC proteins may be used in the prevention, diagnosis and treatment of  
CC diseases associated with inappropriate polypeptide expression.  
CC For example, they may be used in gene therapy or in vaccines.  
CC Typical of diseases which are potentially treatable are cancers  
CC (including leukemia), autoimmune diseases, allergies, inflammation,  
CC graft rejection, hyperproliferation, cardiovascular diseases  
CC (particularly critical limb ischemia and coronary disease) and any  
CC involving abnormal angiogenesis, neurodegeneration and/or  
CC infectious diseases.

Sequence 1923 BP; 444 A; 568 C; 569 G; 342 T; 0 other; XX  
SO

|                       |              |               |                |              |
|-----------------------|--------------|---------------|----------------|--------------|
| Query Match           | 94.7%;       | Score 1776.2; | DB 22;         | Length 1923; |
| Best Local Similarity | 97.8%;       | Pred. No. 0;  |                |              |
| Matches 1832;         | Conservative | 0;            | Mismatches 13; | Indels 28;   |
| Gaps                  | 2;           |               |                |              |

Qy 4 TTTTGTCCACAGGCCAGCCTGACTCCTGGAGATTGTGAATAGTCCATCCAGCCTGAGA 63

[illegible]



|          |              |  |  |      |
|----------|--------------|--|--|------|
| D        | b            | 1431   | CCTGAGGCCTGACCAATCGCCTCCCTGCCCTTCCTGGAGACACGGCTGTGCTTACCTG | 1490 |
| Q        | y            | 1546   | TCTGCCACCTGCTGTGGAACAAGGCCACAGTTAAGACCACATGCTCATGTCCAAAGAG | 1605 |
| D        | b            | 1491   | TCCGCCACCTGCTGTGGAACAAGGCCACAGTTAAGACCACATGCTCATGTCCAAAGAG | 1550 |
| Q        | y            | 1606   | TCTAGACCTTGACAAATGCCAGAAGTTGGGCAGAGAGGAGGAGGAGGAGGAGGAGG   | 1665 |
| D        | b            | 1551   | TCTAGACCTTGACAAATGCCAGAAGTTGGGCAGAGAGGAGGAGGAGGAGGAGGAGG   | 1610 |
| Q        | y            | 1666   | CAGGAGTGTAGTTTGAAGAAGCTGGGGCCCTTCGCCTGCTTTTATTGGGAAGATGG   | 1725 |
| D        | b            | 1611   | CAGGAGTGTAGTTTGAAGAAGCTGGGGCCCTTCGCCTGCTTTTATTGGGAAGATGG   | 1670 |
| Q        | y            | 1726   | CTTCAATTAGTAGGGGAGGAGGAGCACCGCAGTGGTCCAAAAGAGCTGCTCTCTCC   | 1785 |
| D        | b            | 1671   | CTTCAATTAGTAGGGGAGGAGGAGCACCGCAGTGGTCCAAAAGAGCTGCTCTCTCC   | 1730 |
| Q        | y            | 1786   | ACCTGGCCCCAGACCTGTGGGCAGCGAGCTTCCCTGTGGCATGAACCCCACGGGTAT  | 1845 |
| D        | b            | 1731   | ACCTGGCCCCAGACCTGTGGGCAGCGAGCTTCCCTGTGGCATGAACCCCACGGGTAT  | 1790 |
| Q        | y            | 1846   | TAAATTATGAATCAGCTGRAAAAAAAAAAAAA 1876                      |      |
| D        | b            | 1791   | TAAATTATGAATCAGCTGRAAAAAAAAAAAAA 1821                      |      |
| RESULT 7 |              |  |  |      |
| AAD33531 | ID           | AAD33531   | standard; cdna; 1856 BP.                                   |      |
| XX       | AC           | AAD33531;  |  |      |
| XX       | DT           | 01-JUL-2002 (first entry)  |  |      |
| XX       | DE           | Human T139 (TANGO-139) cDNA.   |  |      |
| KW       | KW           | Human; haematopoiesis; clotting; kidney failure; wound healing; cancer; neoplasia; pancreatic disorder; pancreatitis; cerebrovascular disease; heart disorder; ischaemic heart disease; neuroprotective; vulnerary; cardiovascular disorder; ischaemic heart disease; immunosuppressive; glomerular disease; glomerulonephritis; uterine disease; hyperplasia; fetal spleen; prostate disorder; inflammatory disease; Crohn's disease; proliferative disorder; gynaecological; haemostatic; antibacterial; systemic lupus erythematosus; immunodeficiency disorder; antiasthmatic; cytotoxic; nephrotropic; antidiabetic; cerebroprotective; tranquiliser; hypotensive; tumour; injury; trauma; angiogenic; vasotropic; antiulcer; apoptotic disorder; rheumatoid arthritis; cardiac; renal disorder; hepatotropic; antipsoriatic; antiallergic; dermatological; virucide; T139; gene; ss. |  |      |
| OS       | OS           | Homo sapiens.  |  |      |
| FH       | FH           | Key Location/Qualifiers  |  |      |
| FT       | CD           | 95..1435 /tag= a "Human T139 protein"  |  |      |
| FT       | sig_peptide  | 95..172 /tag= b  |  |      |
| FT       | mat_peptide  | 173..1432 /tag= c  |  |      |
| FT       | misc_feature | 95..1432 /product= "Human mature T139 protein"   |  |      |
| FT       | FT           | /note= "This region designated as SEQ.ID.NO.3 is specifically referred in clalm 27"  |  |      |
| P        | N            | US2002028508-A1.   |  |      |
| X        | X            | 07-MAR-2002.   |  |      |
| X        | P            | 21-FEB-2001; 2001US-0790264.   |  |      |
| X        | PF           |  |  |      |



|    |   |   |                |            |   |      |
|----|---|---|----------------|------------|---|------|
| PR | 23-APR-1998;  | 98US-0065363.   | QY             | 226        | AGCAGGCTCCGATGGCCGGAGGCCCTTGAACAGAAAGAGAGTTTCTTGTCTCTCCCTGC     | 285  |
| PR | 23-APR-1998;  | 98US-0065661.   | Db             | 198        | AGCAGGCTCCGATGGCCGGAGGCCCTTGAACAGAAAGAGAGTTTCTTGTCTCTCCCTGC     | 257  |
| PR | 22-JUN-1998;  | 98US-0102705.   |                |            |   |      |
| PR | 23-JUL-1998;  | 98US-0124538.   | QY             | 286        | ACAACCGCTCGCAGCTGGCTCCAGCCCTTGCAGCCCTTGCAGCTGACATGGGAGCTGGACTGA | 345  |
| PR | 23-APR-1999;  | 99US-0298531.   | Db             | 258        | ACAACCGCTCGCAGCTGGCTCCAGCCCTTGCAGCCCTTGCAGCTGACATGGGAGCTGGACTGA | 317  |
| PR | 22-JUN-1999;  | 99US-0337930.   |                |            |   |      |
| PR | 29-JUL-1999;  | 99US-0363630.   | QY             | 346        | GTGACAGCTTGGCCCAACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCCGA    | 405  |
| XX | (HOLT/)   | HOLTZMAN D A.   | Db             | 318        | GTGACAGCTTGGCCCAACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCCGA    | 377  |
| PA | (GOOD/)   | GOODEARL A D J.   | QY             | 406        | GCCTGGCATCGGCGCTGTGGCGCACCTTGAAGTGGGCTGGAACATGACGTGCTGCCG       | 465  |
| PA | (MCCA/)   | MCCARTHY S A.   | Db             | 378        | GCCTGGCGTCCGGCTGTGGCGCACCTTGAAGTGGGCTGGAACATGACGTGCTGCCG        | 437  |
| XX | Holtzman DA, Goodearl ADJ, McCarthy SA;   |   | QY             | 466        | CGGCTTGGCGTCCCTTTGTTGAAGTGTGACGCTATGTTTGCAGAGGGGAGCGGTACA       | 525  |
| XX | WPI: 2002-303420/34.  |   | Db             | 438        | CGGCTTGGCGTCCCTTTGTTGAAGTGTGACGCTATGTTTGCAGAGGGGAGCGGTACA       | 497  |
| XX | P-PSDB: AAE21077.   |   | QY             | 526        | GCCACGGCGGAGAGAGTGTCTCGCAACGCCACCTTGCACCCACTACACGAGCTCGTGT      | 585  |
| PT | Novel TANGO polypeptides and nucleic acid molecules useful as                   |   | Db             | 498        | GCCACGGCGGAGAGAGTGTCTCGCAACGCCACCTTGCACCCACTACACGAGCTCGTGT      | 557  |
| PT | modulating agents in regulating cellular processes and for diagnosing           |   | QY             | 586        | GGGCCACCTCAAGCCAGCTGGCTGTGGCGGCACCTGTGCTCTGCAGGCCAGACGGA        | 645  |
| PT | and treating heart, liver, lung, kidney, inflammatory and cellular              |   | Db             | 558        | GGGCCACCTCAAGCCAGCTGGCTGTGGCGGCACCTGTGCTCTGCAGGCCAGCAGA         | 617  |
| PT | proliferative disorders   |   | QY             | 646        | TAGAAGCCTTTGCTGTGCTTACTTCCCGCGAGGCAACTGGGAGTCAACGGGAGACAA       | 705  |
| XX | Claim 26: Fig 1: 138pp: English.  |   | Db             | 618        | TAGAAGCCTTTGCTGTGCTTACTTCCCGCGAGGCAACTGGGAGTCAACGGGAGACAA       | 677  |
| XX | The invention relates to nucleic acids encoding a variety of proteins           |   | QY             | 706        | TCATCCCTTATAGAAGGTCCTGTGTCTCTGCAGCCAGTGTCTCAGGCTGCT             | 765  |
| CC | human T139 (TANGO-139), T125 (TANGO-125), T110 (TANGO-110), murine T175         |   | Db             | 678        | TCATCCCTTATAGAAGGTCCTGTGTCTCTGCAGCCAGTGTCTCAGGCTGCT             | 737  |
| CC | (TANGO-175), human T175 or murine WDNM-2, having diagnostic, preventive,        |   | QY             | 766        | TCAAAGCCTTGGGACCATGACAGGGGGCTGTGAGGTCCTCCAGGAATCTTGTGCGATGA     | 825  |
| CC | therapeutic and other uses. Polypeptide of the invention has the ability        |   | Db             | 738        | TCAAAGCCTTGGGACCATGACAGGGGGCTGTGAGGTCCTCCAGGAATCTTGTGCGATGA     | 797  |
| CC | to inhibit a proteinase activity, to modulate cell-cell interactions,           |   | QY             | 826        | GCTGCCAAGAACCATGACAGCTCTCAACATCAGCACCTGCCACTGTCCCTCCCTGGCT      | 885  |
| CC | haematopoiesis and the ability to modulate clotting. Polypeptide and            |   | Db             | 798        | GCTGCCAAGAACCATGACAGCTCTCAACATCAGCACCTGCCACTGTCCCTCCCTGGCT      | 857  |
| CC | polynucleotide of the invention are useful for diagnosing and treating          |   | QY             | 886        | ACACGGGAGTACTGCCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG     | 945  |
| CC | disorder characterised by their aberrant expression or activity. The            |   | Db             | 858        | ACACGGGAGTACTGCCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG     | 917  |
| CC | antibodies are useful as modulating agents in regulating a variety of           |   | QY             | 946        | AGGAGGAGTGTCTGTCGCTCTGTGACATCGGCTACCGGGGAGCCAGTGTGCCACCAAGG     | 1005 |
| CC | cellular processes e.g. cell proliferation and/or cell differentiation.         |   | Db             | 918        | AGGAGGAGTGTCTGTCGCTCTGTGACATCGGCTACCGGGGAGCCAGTGTGCCACCAAGG     | 977  |
| CC | TANGO-139 is useful for treating kidney defects such as kidney failure.         |   | QY             | 1006       | TGCATTTTCCCTTCCACACCTGTGACCTGAGGATGACGAGAGTGTGATGATGATGATGAT    | 1065 |
| CC | TANGO-125 is useful in wound healing and for treating cancer. TANGO-110         |   | Db             | 978        | TGCATTTTCCCTTCCACACCTGTGACCTGAGGATGACGAGAGTGTGATGATGATGATGAT    | 1037 |
| CC | is useful for treating neoplasia, TANGO-177 or WDNM-2 is useful for             |   | QY             | 1066       | CAGAGGAGACACCTATTACAGAGCCAGGATGAAATGTTCAGAGGAAAGCGGGGTGCTGG     | 1125 |
| CC | treating cancer, are useful to treat pancreatic disorders, such as              |   | Db             | 1038       | CAGAGGAGACACCTATTACAGAGCCAGGATGAAATGTTCAGAGGAAAGCGGGGTGCTGG     | 1097 |
| CC | pancreatitis, cerebrovascular disease, and tumours, and injury or trauma        |   | QY             | 1126       | CCCAGATCAAGAGCCAGAAAGTGCAGGACATCTCGCTTCTATCTGGGCGGCTGGAGA       | 1185 |
| CC | to the brain. TANGO-125, 110, 175 molecules treat heart disorders, e.g.,        |   | Db             | 1098       | CCCAGATCAAGAGCCAGAAAGTGCAGGACATCTCGCTTCTATCTGGGCGGCTGGAGA       | 1157 |
| CC | ischemic heart disease, cardiovascular disorders, such as ischaemic             |   | QY             | 1186       | CCACCAAGAGGTCAGTGTGACAGTGTGACAGACAGGAGTGTGAGTGTGAGTGTGAGTGTGAG  | 1245 |
| CC | renal (kidney) disorders, such as glomerular disease (e.g. acute and            |   | Db             | 1158       | CCACCAAGAGGTCAGTGTGACAGTGTGACAGTGTGACAGTGTGACAGTGTGACAGTGTGAC   | 1217 |
| CC | chronic glomerulonephritis), TANGO-175 is useful to treat uterine               |   | QY             | 1246       | ACAAGACGCCAAGGACTCTTCCGCTGGGCCACAGGGGAGCACCAGGCTTTCACCAAGTT     | 1305 |
| CC | disorders, hyperplasia of the endometrium. TANGO-110 is useful to treat         |   | Db             | 1218       | ACAAGACGCCAAGGACTCTTCCGCTGGGCCACAGGGGAGCACCAGGCTTTCACCAAGTT     | 1277 |
| CC | spleen, e.g., the fetal spleen, associated diseases and disorder. TANGO-        |   |                |            |   |      |
| CC | 125 treats prostate disorders, such as inflammatory diseases, Crohn's           |   |                |            |   |      |
| CC | disease and tumours. TANGO-139, 125, 110, 175 or WDNM-2 are useful for          |   |                |            |   |      |
| CC | treating proliferative disorders, inflammatory disorders, rheumatoid arthritis, |   |                |            |   |      |
| CC | systemic lupus erythematosus, insulin-dependent diabetes mellitus,              |   |                |            |   |      |
| CC | immune-related disorders, e.g., immunodeficiency disorders, viral               |   |                |            |   |      |
| CC | disorders, cell growth disorders, e.g., cancers and inflammatory                |   |                |            |   |      |
| CC | disorders and apoptotic disorders. The nucleic acids of the invention           |   |                |            |   |      |
| CC | are used in gene therapy. The present sequence is human T139 cDNA.              |   |                |            |   |      |
| XX | Sequence 1856 BP: 402 A; 560 C; 564 G; 330 T; 0 other;                          |   |                |            |   |      |
| SQ | Query Match   | 93.3%;  | Score 1751;    | DB 24;     | Length 1856;  |      |
|    | Best Local Similarity   | 98.0%;  | Pred. No. 0;   |            |   |      |
|    | Matches 1794;   | Conservative 0;   | Mismatches 10; | Indels 27; | Gaps 1;   |      |
| QY | 46  | GCTCCATCCAGCTGAGAAACAGCGGGTGGCTGAGCCAGGCTGTGACGGAGCCACCTG   | 105            |            |   |      |
| Db | 18  | GCTCCATCCAGCTGAGAAACAGCGGGTGGCTGAGCCAGGCTGTGACGGAGTGCCTG    | 77             |            |   |      |
| QY | 106   | ACGGGCGCCAAACAGACCCATGCTGATCCAGAGACCTCCCTCGCCGGGGGATCTCTCGG | 165            |            |   |      |
| Db | 78  | ACGGGCGCCAAACAGACCCATGCTGATCCAGAGACCTCCCTCGCCGGGGGATCTCTCGG | 137            |            |   |      |
| QY | 166   | CTGTGCTCTGCGCCCTCTCTTGGCACCACCTGGGAGAGTGTGGCCACCCAGCTGAGG   | 225            |            |   |      |
| Db | 138   | CTGTGCTCTGCGCCCTCTCTTGGCACCACCTGGGAGAGTGTGGCCACCCAGCTGAGG   | 197            |            |   |      |



830 Primers useful for synthesizing full length cDNA clones and their use in genetic manipulation -

Claim 8; SEQ ID NO 2850; 1380pp + sequence listing; English.

The invention relates to primers for synthesizing full length cDNA clones. 830 cDNA molecules encoding a human protein have been isolated and nucleotide sequences of 5'- and 3'-ends of the cDNA molecules have been determined. Primers for synthesizing the full length cDNA are useful for clarifying the function of the protein encoded by the cDNA. The full length clones were obtained by construction of full length enriched cDNA libraries that were synthesised by the oligo-capping method. The primers enable the production of the full length cDNA easily without any special methods. The present sequence is a full length human cDNA of the invention.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in CD-ROM format directly from EPO.

Sequence 1786 BP; 361 A; 548 C; 553 G; 324 T; 0 other;

Query Match 92.2%; Score 1729.8; DB 22; Length 1786;  
Best Local Similarity 97.8%; Pred. No. 0;  
Matches 1774; Conservative 0; Mismatches 12; Indels 27; Gaps 1;

PT 830 Primers useful for synthesizing full length cDNA clones and their use in genetic manipulation -

XX Claim 8; SEQ ID NO 2850; 1380pp + sequence listing; English.

XX The invention relates to primers for synthesizing full length cDNA clones. 830 cDNA molecules encoding a human protein have been isolated and nucleotide sequences of 5'- and 3'-ends of the cDNA molecules have been determined. Primers for synthesizing the full length cDNA are useful for clarifying the function of the protein encoded by the cDNA. The full length clones were obtained by construction of full length enriched cDNA libraries that were synthesised by the oligo-capping method. The primers enable the production of the full length cDNA easily without any special methods. The present sequence is a full length human cDNA of the invention.

CC Note: The sequence data for this patent did not form part of the printed specification, but was obtained in CD-ROM format directly from EPO.

XX Sequence 1786 BP; 361 A; 548 C; 553 G; 324 T; 0 other;

51 ATCCAGCCTGAGAAACAAAGCCGGTGGCTGAGCCAGAGCTGTGACGAGACACCTGACGGG 110  
1 ATCCAGCCTGAGAAACAAAGCCGGTGGCTGAGCCAGAGCTGTGACGAGAGCGCTGACGGG 60  
111 CCCAACAGACCCATGCTGATCCAGAGACCTCCCTCGCGGGGGCATCTCTGGCTGTG 170  
61 CCCAACAGACCCATGCTGATCCAGAGACCTCCCTCGCGGGGGCATCTCTGGCTGTG 120  
171 CTCCTGCGCCCTGCTGGCAGCAGCTGGGAGAGAGTGTGGCCACCCAGCTCAGAGAGCAG 230  
121 CTCCTGCGCCCTGCTGGCAGCAGCTGGGAGAGAGTGTGGCCACCCAGCTCAGAGAGCAG 180  
231 GCTCCGATGGCGGAGCCCTGAACAGAGAGAGTGTGGCCACCCAGCTCAGAGAGCAG 290  
181 GCTCCGATGGCGGAGCCCTGAACAGAGAGAGTGTGGCCACCCAGCTCAGAGAGCAG 240  
291 CGCTCGCAGCTGGTCCAGCCCTCGGCTGACATCGAGAGCTGAGCTGAGCTGAGCTGAC 350  
241 CGCTCGCAGCTGGTCCAGCCCTCGGCTGACATCGAGAGCTGAGCTGAGCTGAGCTGAC 300  
351 AGCTTGCCCAACTGGCTCAAGCAGAGCGCCCTCTGTGGAATCCCAACCCGAGCCCTG 410  
301 AGCTTGCCCAACTGGCTCAAGCAGAGCGCCCTCTGTGGAATCCCAACCCGAGCCCTG 360  
411 GCATCCGCGCTGTGGCGCAGCCCTGCAAGTGGCTGGAACATGACATGCTGCTGCCCGGGC 470  
361 GCGTCCGCGCTGTGGCGCAGCCCTGCAAGTGGCTGGAACATGACATGCTGCTGCCCGGGC 420  
471 TTGGCGTCTTTTGAAGTGGTCAAGCTATGTTTGGAGAGGGGAGGGGTACAGCCAC 530  
421 TTGGCGTCTTTTGAAGTGGTCAAGCTATGTTTGGAGAGGGGAGGGGTACAGCCAC 480  
531 GCGGAGGAGAGTGTGCTGCAACCCAGCTGACCCAGCTGACCCAGCTGACCCAGCTGACCC 590  
481 GCGGAGGAGAGTGTGCTGCAACCCAGCTGACCCAGCTGACCCAGCTGACCCAGCTGACCC 540  
591 ACCTCAAGCAGCTGGGCTGTGGGGGAGCTGTGCTGTGAGAGGGGAGGGGTACAGATAGAA 650  
541 ACCTCAAGCAGCTGGGCTGTGGGGGAGCTGTGCTGTGAGAGGGGAGGGGTACAGATAGAA 600  
651 GCCTTTGTCTGTGCTTACTCCCGGAGGAGCACTGGGAGGTCAACGGGAGAGACAATC 710  
601 GCCTTTGTCTGTGCTTACTCCCGGAGGAGCACTGGGAGGTCAACGGGAGAGACAATC 650  
711 CCCTATAAGAGGGTCCCTGGTGTGCTGCTGACAGCCAGTGTCTCAGGCTGCTTCAAA 770  
661 CCCTATAAGAGGGTCCCTGGTGTGCTGCTGACAGCCAGTGTCTCAGGCTGCTTCAAA 720  
771 GCCTGGGAGCAGTACAGGGGGGCTCTGTGAGGTGCTCCCGAGGAATCTTGTGCGATGAGCTGC 830



CC microbial infections and autoimmune disorders such as multiple sclerosis,  
CC rheumatoid arthritis and insulin-dependent diabetes), to modulate  
CC haematopoiesis, to modulate tissue growth activity (e.g. for the  
CC treatment of Parkinson's disease, Huntington's disease and Alzheimer's  
CC disease), to modulate actin and inhibin activity (e.g. for controlling  
CC fertility), to modulate chemotactic and chemokinetic activity, to  
CC modulate haemostatic and thrombolytic activity, to modulate receptor  
CC ligand activity, to modulate inflammation and to inhibit tumour growth.  
XX  
SQ

Sequence 1775 BP; 360 A; 541 C; 549 G; 325 T; 0 other;

Query Match 91.7%; Score 1721; DB 22; Length 1775;

Best Local Similarity 97.9%; Pred. No. 0;

Matches 1764; Conservative 0; Mismatches 10; Indels 27; Gaps 1;

|    |     |   |     |
|----|-----|---|-----|
| QY | 63  | AAACAAGCCGGTGGCTGAGCCAGGCTGACAGGAGACCTGACGGGCCACACAGACC     | 122 |
| DB | 2   | AAACAAGCCGGTGGCTGAGCCAGGCTGACAGGAGTGCCTGACGGGCCACACAGACC    | 61  |
| QY | 123 | ATGCTGCATCCAGAGACCTCCCTGGCCGGGGGCATCTCTTGCTGTGCTCTGGCCCTC   | 182 |
| DB | 62  | ATGCTGCATCCAGAGACCTCCCTGGCCGGGGGCATCTCTTGCTGTGCTCTGGCCCTC   | 121 |
| QY | 183 | CTTGGCACCACCTGGGAGAGGTGTGGCCACCCAGCTGCAGGAGGCTCCGATGGCC     | 242 |
| DB | 122 | CTTGGCACCACCTGGGAGAGGTGTGGCCACCCAGCTGCAGGAGGCTCCGATGGCC     | 181 |
| QY | 243 | GGAGCCCTGAACAGGAGAGAGTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT    | 302 |
| DB | 182 | GGAGCCCTGAACAGGAGAGAGTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT    | 241 |
| QY | 303 | TGGGTTCAGCCCTGGCGGTGACATCCGAGGCTGACCTGGAGTGACAGCTGGGCCAA    | 362 |
| DB | 242 | TGGGTTCAGCCCTGGCGGTGACATCCGAGGCTGACCTGGAGTGACAGCTGGGCCAA    | 301 |
| QY | 363 | CTGGCTCAAGCAGGAGGAGCCCTCTGTGGAATCCCAACCCCGAGCTGGCATCCGGCTG  | 422 |
| DB | 302 | CTGGCTCAAGCAGGAGGAGCCCTCTGTGGAATCCCAACCCCGAGCTGGCATCCGGCTG  | 361 |
| QY | 423 | TGGCGCACCTTGAAGTGGGTGGAACATGACGTGTGTCGCCGGGGCTGGCGTCTTT     | 482 |
| DB | 362 | TGGCGCACCTTGAAGTGGGTGGAACATGACGTGTGTCGCCGGGGCTGGCGTCTTT     | 421 |
| QY | 483 | GTTCAAGTGGTACGCTATGTTTGCAGAGGCGAGCGGTACAGCCAGCGCGGAGAG      | 542 |
| DB | 422 | GTTCAAGTGGTACGCTATGTTTGCAGAGGCGAGCGGTACAGCCAGCGCGGAGAG      | 481 |
| QY | 543 | TGTGCTCGCAACGGCACCTGCACCCACTACACGAGCTCGTGTGGGCCACCTCAAGCCAG | 602 |
| DB | 482 | TGTGCTCGCAACGGCACCTGCACCCACTACACGAGCTCGTGTGGGCCACCTCAAGCCAG | 541 |
| QY | 603 | CTGGGCTGTGGCGCACCTGTGCTCTCAGGCCAGACGAGATAGAGCCCTTTGCTGT     | 662 |
| DB | 542 | CTGGGCTGTGGCGCACCTGTGCTCTCAGGCCAGACGAGATAGAGCCCTTTGCTGT     | 601 |
| QY | 663 | GCTACTCTCCCGAGGCAACTGGGAGGTCAACGGGAGACAAATCATCCCTATAGAAG    | 722 |
| DB | 602 | GCTACTCTCCCGAGGCAACTGGGAGGTCAACGGGAGACAAATCATCCCTATAGAAG    | 661 |
| QY | 723 | GCTGCTGTGGTGTGCTGTGCACAGCCAGTGTCTCAGGCTGCTTCAAGCCCTGGGACCAT | 782 |
| DB | 662 | GCTGCTGTGGTGTGCTGTGCACAGCCAGTGTCTCAGGCTGCTTCAAGCCCTGGGACCAT | 721 |
| QY | 783 | GCAGGGGGCTCTGTGAGGTGCCCCAGGAATCTTGTGCGATGAGCTGCCAGAACCATGGA | 842 |
| DB | 722 | GCAGGGGGCTCTGTGAGGTGCCCCAGGAATCTTGTGCGATGAGCTGCCAGAACCATGGA | 781 |
| QY | 843 | CGTCTCAACATCAGCACCTGCCACTGCCACTGTCCCTCTGGCTACACGGGAGATCTGC  | 902 |
| DB | 782 | CGTCTCAACATCAGCACCTGCCACTGCCACTGTCCCTCTGGCTACACGGGAGATCTGC  | 841 |
| QY | 903 | CAAGTGAAGTGCAGCCCTGCAGTGTGTGCACGGCCGTTCCGGGAGGAGGTCTCTGTC   | 962 |

|    |      |   |      |
|----|------|---|------|
| DB | 842  | CAAGTGAGGTGACGCTGAGTGTGTGCAGCGCGGTTCCGGGAGGAGGAGTCTCTGTC      | 901  |
| QY | 963  | GTCTGTGACATCGGCTACGGGGAGGCCAGTGTGCCACCAAGGTGATTTCCCTTCCAC     | 1022 |
| DB | 902  | GTCTGTGACATCGGCTACGGGGAGGCCAGTGTGCCACCAAGGTGATTTCCCTTCCAC     | 961  |
| QY | 1023 | ACCTGTGACCTGAGGATCAGCGAGACTGCTTCATGGTGTCTTTCAGAGGCGACACCTAT   | 1082 |
| DB | 962  | ACCTGTGACCTGAGGATCAGCGAGACTGCTTCATGGTGTCTTTCAGAGGCGACACCTAT   | 1021 |
| QY | 1083 | TACAGAGCCAGGATGAATGTTCAGAGAAAGCGGGGTGCTGCCCCAGATCAAGAGCCAG    | 1142 |
| DB | 1022 | TACAGAGCCAGGATGAATGTTCAGAGAAAGCGGGGTGCTGCCCCAGATCAAGAGCCAG    | 1081 |
| QY | 1143 | AAAGTCAGGACATCTCCCTTCTATCTGGCCGCTGAGACCAACCAAGAGGTGACT        | 1202 |
| DB | 1082 | AAAGTCAGGACATCTCCCTTCTATCTGGCCGCTGAGACCAACCAAGAGGTGATT        | 1141 |
| QY | 1203 | GACAGTGACTTCAGAGACCAAGAACTTCTGGATCGGGCTCACTTACAAAGCCGCCAAGGAC | 1262 |
| DB | 1142 | GACAGTGACTTCAGAGACCAAGAACTTCTGGATCGGGCTCACTTACAAAGCCGCCAAGGAC | 1201 |
| QY | 1263 | TCCTTCGGCTGGCCACAGGGAGCACAGGCTTCCACAGTTTGGCTTTGGCAGCCT        | 1322 |
| DB | 1202 | TCCTTCGGCTGGCCACAGGGAGCACAGGCTTCCACAGTTTGGCTTTGGCAGCCT        | 1261 |
| QY | 1323 | GACAAACACGGGCTGGTGTGCTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG      | 1382 |
| DB | 1262 | GACAAACAC-----GGGTTTGGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTG        | 1294 |
| QY | 1383 | CAGGCTTTCAGTGTGCTTCACTGGAACAGCAGCGCTGCAAAACCCGAAACCGTTACATC   | 1442 |
| DB | 1295 | CAGGCTTTCAGTGTGCTTCACTGGAACAGCAGCGCTGCAAAACCCGAAACCGTTACATC   | 1354 |
| QY | 1443 | TGCCAGTTTGGCCAGGAGACATCTCCGGGTGGGGCCCGAGGCTCTGAGGCTGACACCA    | 1502 |
| DB | 1355 | TGCCAGTTTGGCCAGGAGACATCTCCGGGTGGGGCCCGAGGCTCTGAGGCTGACACCA    | 1414 |
| QY | 1503 | TGGCTCCCTCGCTGCTGGGAGACCGGCTCTGCTTACCTGCTGCTGCTGCTGCTGCTG     | 1562 |
| DB | 1415 | TGGCTCCCTCGCTGCTGGGAGACCGGCTCTGCTTACCTGCTGCTGCTGCTGCTGCTG     | 1474 |
| QY | 1563 | AACAAGGCCAGGTAAAGACACACATGCTCATGTCCAAAGAGGTCTCAGACCTTGACACA   | 1622 |
| DB | 1475 | AACAAGGCCAGGTAAAGACACACATGCTCATGTCCAAAGAGGTCTCAGACCTTGACACA   | 1534 |
| QY | 1623 | TGCCAAGAAGTTGGGCGAGAGAGGAGGAGGCCAGTGTAGGGCCAGGAGTGTGTAG       | 1682 |
| DB | 1535 | TGCCAAGAAGTTGGGCGAGAGAGGAGGAGGCCAGTGTAGGGCCAGGAGTGTGTAG       | 1594 |
| QY | 1683 | AAGAAGCTGGGGCCCTTGGCTGCTTTGATTTGGGAAGATGGCTTCAATTAGATGGCGA    | 1742 |
| DB | 1595 | AAGAAGCTGGGGCCCTTGGCTGCTTTGATTTGGGAAGATGGCTTCAATTAGATGGCGA    | 1654 |
| QY | 1743 | AGGAGGAGACACCGCAGTGGTCCAAAAGGCTGCTCTCTCCACTGCCCCAGACCCCTG     | 1802 |
| DB | 1655 | AGGAGGAGACACCGCAGTGGTCCAAAAGGCTGCTCTCTCCACTGCCCCAGACCCCTG     | 1714 |
| QY | 1803 | TGGGGCAGCGGAGCTTCCCTGTGGGATGAACCCACGGGGTATTAATATGAATCAGCT     | 1862 |
| DB | 1715 | TGGGGCAGCGGAGCTTCCCTGTGGCATGAACCCACAGGGTATTAATATGAATCAGCT     | 1774 |
| QY | 1863 | G 1863  |      |
| DB | 1775 | G 1775  |      |

RESULT 10  
AAS91790  
ID AAS91790 standard; cDNA; 1934 BP.  
XX  
AAS91790;  
XX

DT XX 13-FEB-2002 (first entry)  
DE XX DNA encoding novel human diagnostic protein #27594.  
KW XX Human; chromosome mapping; gene mapping; gene therapy; forensic;  
KW XX food supplement; medical imaging; diagnostic; genetic disorder; ss.  
XX OS Homo sapiens.  
XX WO200175067-A2.  
PN XX 11-OCT-2001.  
PD XX 30-MAR-2001; 2001WO-US08631.  
PF XX 31-MAR-2000; 2000US-0540217.  
PR XX 23-AUG-2000; 2000US-0649167.  
XX (HYSE-) HYSEQ INC.  
XX  
XX Drmanac RT, Liu C, Tang YT;  
XX WPI; 2001-639362/73.  
DR P-PSDB; ABG27603.  
XX  
XX New isolated polynucleotide and encoded polypeptides, useful in  
PT diagnostics, forensics, gene mapping, identification of mutations  
PT responsible for genetic disorders or other traits and to assess  
PT biodiversity -  
XX  
XX Claim 1; SEQ ID No 27594; 103pp; English.  
XX  
XX The invention relates to isolated polynucleotide (I) and  
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
CC and gene mapping, and in recombinant products of (II). The  
CC polynucleotides are also used in diagnostics as expressed sequence tags  
CC for identifying expressed genes. (I) is useful in gene therapy techniques  
CC to restore normal activity of (II) or to treat disease states involving  
CC quantitating a polypeptide in tissue, as molecular weight markers and as  
CC imaging of sites expressing (II). (I) and (II) are useful in medical  
CC disorders involving aberrant protein expression or biological activity.  
CC The polypeptide and polynucleotide sequences have applications in  
CC diagnostics, forensics, gene mapping, identification of mutations  
CC responsible for genetic disorders or other traits to assess biodiversity  
CC and to produce other types of data and products dependent on DNA and  
CC amino acid sequences. AAS64197-AAS94564 represent novel human  
CC diagnostic coding sequences of the invention.  
CC Note: The sequence data for this patent did not appear in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
SQ Sequence 1934 BP; 409 A; 577 C; 576 G; 372 T; 0 other;

Query Match 87.2%; Score 1636; DB 23; Length 1934;  
Best Local Similarity 95.0%; Pred. No. 0;  
Matches 1803; Conservative 0; Mismatches 45; Indels 50; Gaps 9;

QY 2 TCTTTTGTCCACAGCCGACCTGACTCTCTGGAGATGTGAATAGCTCCATCCAGCCCTGA 61  
DB 60 TCTTTTGTCCACAGCCGACCTGACTCTCTGGAGATGTGAATAGCTCCATCCAGCCCTGA 119  
QY 62 GAAACAAGCCGGTGGCTGAGCCAGGCTGTGCACGGAGCACCTGACGGGCCCAACAGACC 121  
DB 120 GAAACAAGCCGGTGGCTGAGCCAGGCTGTGCACGGAGCCCTGACGGGCCCAACAGACC 179  
QY 122 CATGCTGCATCAGAGACCTCCCTGGCGGGGGGATCTCTCTGGCTGTGCTCTGGCCCT 181  
DB 180 CATGCTGCATCAGAGACCTCCCTGGCGGGGGGATCTCTCTGGCTGTGCTCTGGCCCT 239  
QY 182 CTTGGCCACCACTGGGAGAGGTGTGGGCCACCCGACGCTGCAGGAGCGCTCCGATGCC 241

DB 240 CTTGGCCACCACTGGGAGAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGCC 299  
QY 242 CGGAGCCCTGAACAGGAGGAGAGTTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 301  
DB 300 CGGAGCCCTGAACAGGAGGAGAGTTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 359  
QY 302 CTGGGTCCAGCCCTCTGGGCTGACATCGGAGGCTGGAGTGCAGAGCTTGCCCA 361  
DB 360 CTGGGTCCAGCCCTCTGGGCTGACATCGGAGGCTGGAGTGCAGAGCTTGCCCA 419  
QY 362 ACTGGCTCAAGCCAGGAGGAGGCTCTCTGTGGAATCCACCCGAGGCTTGCGGCT 421  
DB 420 GCTGGCTCAAGCCAGGAGGAGGCTCTGTGGAATCCACCCGAGGCTTGCGGCT 479  
QY 422 GTGGCGCACCTTCAAGTGGGCTGGAACATGCAGCTGTGCCCGGGCTTGCGCTT 481  
DB 480 GTGGCGCACCTTCAAGTGGGCTGGAACATGCAGCTGTGCCCGGGCTTGCGCTT 539  
QY 482 TGTGTAAGTGGTCAAGCTATGTTGTCAGAGGGGAGCGGTACAGCCACGCGGAGGAGA 541  
DB 540 TGTGTAAGTGGTCAAGCTATGTTGTCAGAGGGGAGCGGTACAGCCACGCGGAGGAGA 599  
QY 542 GTGTGCTGCGCAACGCCACCTGCACCCACTACACGAGCTCTGTGGGCGACCTCAAGCA 601  
DB 600 GTGTGCTGCGCAACGCCACCTGCACCCACTACACGAGCTCTGTGGGCGACCTCAAGCA 659  
QY 602 GCTGGGCTGTGGGCGGACCTGTGCTGTGAGGCGGAGCAGATAGAGCTTTTGTCTG 661  
DB 660 GCTGGGCTGTGGGCGGACCTGTGCTGTGAGGCGGAGCAGATAGAGCTTTTGTCTG 719  
QY 662 TGCTTACTCTCCCGAGGCAACTGGGAGGTCAACGGGAAGCAATCATCCCTATAAGAA 721  
DB 720 TGCTTACTCTCCCGAGGCAACTGGGAGGTCAACGGGAAGCAATCATCCCTATAAGAA 779  
QY 722 GGTGTGCTGGTGTCTCTGTCAGAGCTGTCTCAAGGCTGTCTCAAGGCTCTGGGACA 781  
DB 780 GGTGTGCTGGTGTCTCTGTCAGAGCTGTCTCAAGGCTGTCTCAAGGCTCTGGGACA 839  
QY 782 TGCAGGGGGCTGTGTGAGGTCTCCAGGATCTCTGTGCGATGAGCTGCCAAGACCATG 841  
DB 840 TGCAGGGGGCTGTGTGAGGTCTCCAGGATCTCTGTGCGATGAGCTGCCAAGACCATG 899  
QY 842 ACCTCTCAACATCAGACCTGCCACTGCCACTGTCCCTCTGGCTACACGGGAGAGTCTG 901  
DB 900 ACCTCTCAACATCAGACCTGCCACTGCCACTGTCCCTCTGGCTACACGGGAGAGTCTG 959  
QY 902 CCAAGTGGTGCAGCTGCAGTGTGTGACGGCCGGTTCGGGAGGAGTGTCTGCTG 961  
DB 960 CCAAGTGGTGCAGCTGCAGTGTGTGACGGCCGGTTCGGGAGGAGTGTCTGCTG 1019  
QY 962 CTTCTGTGACATCGGCTACGGGGAGGCCAGTGTGCCACCAAGTGCATTTTCCCTTCCA 1021  
DB 1020 CTTCTGTGACATCGGCTACGGGGAGGCCAGTGTGCCACCAAGTGCATTTTCCCTTCCA 1079  
QY 1022 CACTGTGACCTGAGATCGAGGAGACTGCTTCAATGGTGTCTTC-AGAGGAGACACCT 1080  
DB 1080 CACTGTGACCTGAGATCGAGGAGACTGCTTCAATGGTGTCTTC-AGAGGAGACACCT 1139  
QY 1081 ATTACAGAGCCAGGATGAATGT-----CAGAGGAAAGCGGGGTGCTGGCC 1127  
DB 1140 ATTACAGAGCCAGGATGAATGTAGGGTGGGGTTACAGAGGAAAGCGGGGTGCTGGCC 1199  
QY 1128 CAGATCAAGAGCCAGAAAGTGCAGGACATCTCGCTTCTATCTGGCGGCTCTGGAGACC 1187  
DB 1200 CAGATCAAGAGCCAGAAAGTGCAGGACATCTCTCGCTTCTATCTGGGCTCTGGAGACC 1259  
QY 1188 ACCAAGAGGTTGACTGACAGTGCATTCAGAGACCAAGAACTCTGTGATCGGGCTACCTAC 1247  
DB 1260 ACCAAGAGGTTGATTGACAGTGCATTCAGAGACCAAGAACTCTGTGATCGGGCTACCTAC 1319  
QY 1248 AAGACCGCCAAAGGACTCTCTCGCTGGGCCACAGGGGAGCAGGAGCTTTCACCACTTT 1307

|           |   |   |      |
|-----------|---|---|------|
| Db        | 1320  | AAGACCGCAAGGAATCTCTCGCTGGCCACAGGGGAGCACCAGGCCTTACACAGTTT    | 1379 |
| Qy        | 1308  | GCCTTTGGGCGAGCTGACAAACACACGGGCTGTGTGCTGAGTGTGCCATGGGGTTTGGC | 1367 |
| Db        | 1380  | GCCTTTGGGCGAGCTGACAAAC-----GGGTTTGGC                        | 1412 |
| Qy        | 1368  | AACTCGGTGGAGCTCAGGCTTCAGCTGCCTCAACTGGAACGACCGGCTGCAAAACC    | 1427 |
| Db        | 1413  | AACTCGGTGGAGCTCAGGCTTCAGCTGCCTCAACTGGAACGACCGGCTGCAAAACC    | 1472 |
| Qy        | 1428  | CAAAACCGTTACATCTGCCAGTTTGCACAGGAGCACA-TCTCCCGGTGGGCCCA--GGG | 1484 |
| Db        | 1473  | CAAAACCGTTACATCTGCCAGTTTGCACAGGAGCACA-TCTCGGGTGGGCCCATGGGT  | 1532 |
| Qy        | 1485  | TCTTGAGGCGCTGACCACATGGCTGCCTCGCCCTGGGAGCACCAGGCTCTGCTTACCT  | 1544 |
| Db        | 1533  | CCTGATGGCTGACCACATGGCTGCCTCGCCCTGGGAGCACCAGGCTCTGCTTACCT    | 1592 |
| Qy        | 1545  | GTCTGCCACCTGCTCGGAACAGGSGCC-AGGTTAAGACCATGCTCATGTCCAAAG-    | 1602 |
| Db        | 1593  | GTCTGCCACCTGCTCGGAACAGGSGCCAGGTTAAGATCATGCTCATGTCCAAAGA     | 1652 |
| Qy        | 1603  | AGTCTCAGACCTTGACAAATGCCAGAAGTTGGCGAGAGAGGAGGAGGCGCACTGAG    | 1662 |
| Db        | 1653  | AGTCTCAGACCTTGACAAATGCCAGAAGTTGGCGAGAGAGGAGGAGGCGCACTGAG    | 1712 |
| Qy        | 1663  | GGCAGGGAGTGAAGTGTAGAGAAGCTGGGGCCCTTCGCTCTTTGATTTGGGAAGAT    | 1722 |
| Db        | 1713  | GGCAGGGAGTGAAGTGTAGAGAAGCTGGGGCCCTTCGCTCTTTGATTTGGGAAGAT    | 1772 |
| Qy        | 1723  | GGGCTTCAATTAGATGGCGAAGGAGAGACACCGCCAGTGGTCCAAAAGGCTGCTCTCT  | 1782 |
| Db        | 1773  | GGGCTTCAATTAGATGGCGAAGGAGAGACCGCCAGTGGTCCAAAAGGCTGCTCTCT    | 1832 |
| Qy        | 1783  | TCCACCTGGCCCCAGACCTCTGGGGCAGCGAGCTTCCC---TGTTGGCATGAACCCACG | 1839 |
| Db        | 1833  | TCCACCTGGCCCCAGACCTCTGGGGCAACGAGCTTCCCCTTTGGCATTAACCCCCACG  | 1892 |
| Qy        | 1840  | GGGTATTAAA-TTATGAATCAGCTGAATAAAAAAAAAAAAAA                  | 1876 |
| Db        | 1893  | GGTATTAAAATTATGAATCAGCTGAATAAAAAAAAAAAAAA                   | 1930 |
| RESULT 11 |   |   |      |
| AAZ23300  |   |   |      |
| ID        | AAZ23300 standard; cDNA; 1338 BP.                                       |   |      |
| XX        | AAZ23300;   |   |      |
| XX        | 31-JAN-2000 (first entry)   |   |      |
| XX        | Human T139 protein coding sequence.                                     |   |      |
| XX        | Human; T139 polypeptide; immune system disorder; spermatogenesis; ss;   |   |      |
| XX        | sperm-egg fusion; testicular disorder; testicular cancer; gene mapping. |   |      |
| XX        | Homo sapiens.   |   |      |
| XX        | W0954343-A2.  |   |      |
| XX        | 28-OCT-1999.  |   |      |
| XX        | 23-APR-1999; 99WO-US08896.  |   |      |
| XX        | 23-APR-1998; 98US-0065661.  |   |      |
| XX        | (MILL-) MILLENNIUM BIOTHERAPEUTICS INC.                                 |   |      |
| XX        | Holtzman D;   |   |      |
| XX        | WPI; 1999-633969/54.  |   |      |
| XX        | P-PSDB; AAY41266.   |   |      |

|   |  |   |
|---|--|---|
| Human T139 nucleic acids and polypeptides, useful for treating proliferative disorders associated with aberrant T139 expression or activity | Claim 2; Page 114; 115pp; English.   | This represents the coding sequence of the human T139 polypeptide. The T139 polypeptide can be expressed by standard recombinant methodology. The T139 cDNA insert is deposited with ATCC under accession number 98694. The T139 polypeptides and polynucleotides can be administered therapeutically or prophylactically to treat/prevent disorders associated with aberrant T139 expression or activity, especially proliferative or differentiative disorders, e.g. of the immune system. They can be used to modulate spermatogenesis, e.g. as a contraceptive to decrease spermatogenesis or to treat disorders related to defects in sperm-egg fusion. They may also be useful to treat testicular disorders e.g. testicular cancer. The polypeptides may be used to identify selectively binding compounds which may be useful for detecting the polypeptides in samples; and identifying compounds modulating polypeptide activity. The polynucleotides are useful for producing probes or primers that selectively hybridize to the polynucleotides in a sample, gene mapping; identifying cells or tissues expressing aberrant T139 levels; determining if a gene has been mutated or deleted to identify subjects at risk for or having a disorder associated with T139 expression or activity and to monitor therapeutic interventions; and for producing antisense sequences for therapeutic administration to modulate/prevent T139 expression. |
|   | Sequence 1338 BP; 259 A; 420 C; 413 G; 246 T; 0 other;   |   |
|   | Query Match 58.9%; Score 1293; DB 20; Length 1338; Best Local Similarity 97.7%; Pred. No. 5.2e-301; Matches 1333; Conservative 0; Mismatches 5; Indels 27; Gaps 1; |   |
| QY  | 123  | ATGCTGCATCCAGAGACTCCCTGGCGGGGGCATCTCTGGCTGTGCTCTCTGGCCCTC 182   |
| DB  | 1  | ATGCTGCATCCAGAGACTCCCTGGCGGGGGCATCTCTGGCTGTGCTCTCTGGCCCTC 60  |
| QY  | 183  | CTTGGCACCACTGGGCAGAGGTGTGGCCACCCAGCTGCGAGGAGCTCCGATGGCC 242   |
| DB  | 61   | CTTGGCACCCCTGGGCAGAGGTGTGGCCACCCAGCTGCGAGGAGCTCCGATGGCC 120   |
| QY  | 243  | GGAGCCCTGAACAGGAGAGAGTTCTTGTCTCTCTCTCTCTCTCTCTCTCTCTCT 302  |
| DB  | 121  | GGAGCCCTGAACAGGAGAGAGTTCTTGTCTCTCTCTCTCTCTCTCTCTCTCTCT 180  |
| QY  | 303  | TGGTTCACGCCCTTGGCGCTGACATGCGAGGCTGGACTGGAGTGACAGCTGGCCCAA 362   |
| DB  | 181  | TGGTTCACGCCCTTGGCGCTGACATGCGAGGCTGGACTGGAGTGACAGCTGGCCCAA 240   |
| QY  | 363  | CTGGCTCAAGCCAGGCGAGCCCTCTGTGGATCCCAACCCGAGCTGGCATCCGCGCTG 422   |
| DB  | 241  | CTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCGAGCTGGCGTCCGCGCTG 300  |
| QY  | 423  | TGGCGCACCTTGAAGTGGCTGGAACATGCACTGCTGCCCGGGCTTGGCGTCTCTTT 482  |
| DB  | 301  | TGGCGCACCTTGAAGTGGCTGGAACATGCACTGCTGCCCGGGCTTGGCGTCTCTTT 360  |
| QY  | 483  | GTTGAAGTGGTCAGCCTATGTTTTCAGAGGGGCGAGCGGTACAGCCACCGCGGAGAGAG 542   |
| DB  | 361  | GTTGAAGTGGTCAGCCTATGTTTTCAGAGGGGCGAGCGGTACAGCCACCGCGGAGAGAG 420   |
| QY  | 543  | TGTGTCGACAGCCACCTGACCCACTACACGAGCTGTGTGGGCCACCTCAAGCCAG 602   |
| DB  | 421  | TGTGTCGACAGCCACCTGACCCACTACACGAGCTGTGTGGGCCACCTCAAGCCAG 480   |
| QY  | 603  | CTGGGCTGTGGGCGCACCTGTGCTCTGACGGCGCACAGCGATAGAAGCTTTGTCTGT 662   |
| DB  | 481  | CTGGGCTGTGGGCGCACCTGTGCTCTGACGGCGCACAGCGATAGAAGCTTTGTCTGT 540   |
| QY  | 663  | GCCTACTCCCCGGGAGCACTGGGAGGTCAACGGGAAGACAATCATCCCTATAGAAG 722  |
| DB  | 541  | GCCTACTCCCCGGGAGCACTGGGAGGTCAACGGGAAGACAATCATCCCTATAGAAG 600  |



Db 547 CTGGCTGTGGGGCGACCTGCTCTGTCAGGCGCCAGCGAGTATAGAGCTTTGCTGT 606  
QY 663 GCCTACTCCCGGAGGCAACTGGGAGTCAACGGGAAGACATATCCCTTATAGAAG 722  
Db 607 GCCTACTCCCGGAGGCAACTGGGAGTCAACGGGAAGACATATCCCTTATAGAAG 666  
QY 723 GGTGCTGTGGTCTCTGTCAGACAGCAGTCTCAGGCTGCTCAAGGCTGGACCAT 782  
Db 667 GGTGCTGTGGTCTCTGTCAGACAGCAGTCTCAGGCTGCTCAAGGCTGGACCAT 726  
QY 783 GCAGGGGGGCTGTGAGGTCCCGAGGAATCCCTTGTGCGATGAGCTGCCAGAACCATGGA 842  
Db 727 GCAGGGGGGCTGTGAGGTCCCGAGGAATCCCTTGTGCGATGAGCTGCCAGAACCATGGA 786  
QY 843 CGTCTCAACATACAGACCTCCCACTGCGCACTGTCCCTGCTACAGCGGCAGATAGTC 902  
Db 787 CGTCTCAACATACAGACCTCCCACTGCGCACTGTCCCTGCTACAGCGGCAGATAGTC 846  
QY 903 CAAGTAGGTCAGCCTGCACTGTGTCACGGCGGTTCCGGGAGGAGTGTCTGCTGC 962  
Db 847 CAAGTAGGTCAGCCTGCACTGTGTCACGGCGGTTCCGGGAGGAGTGTCTGCTGC 906  
QY 963 GTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCACCAAGTGTCAATTTCCCTTCCAC 1022  
Db 907 GTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCACCAAGTGTCAATTTCCCTTCCAC 966  
QY 1023 ACCTGTGACCTGAGGATCGAGGAGACTGCTTCATGCTGTCTTCAGAGGCGAGACCATAT 1082  
Db 967 ACCTGTGACCTGAGGATCGAGGAGACTGCTTCATGCTGTCTTCAGAGGCGAGACCATAT 1026  
QY 1083 TACAGACCCAGGATGAATGTACAGAGAAAGCGGGGTGCTGGCCCAAGATCAAGAGCCAG 1142  
Db 1027 TACAGACCCAGGATGAATGTACAGAGAAAGCGGGGTGCTGGCCCAAGATCAAGAGCCAG 1086  
QY 1143 AAAGTCAGGACATPCTCGGCTTCTATCTGGGCGGCTTGGAGACCAACAGAGGTGACT 1202  
Db 1087 AAAGTCAGGACATPCTCGGCTTCTATCTGGGCGGCTTGGAGACCAACAGAGGTGATT 1146  
QY 1203 GACAGTACATTCGAGACAGCAAGAACTTCTGGATCGG 1237  
Db 1147 GACAGTACATTCGAGACAGCAAGAACTTCTGGATCGG 1181

## RESULT 13

AA576343  
ID AA576343 standard; cdna; 906 BP.

AC AA576343;

XX  
DT 13-FEB-2002 (first entry)

XX DNA encoding novel human diagnostic protein #12147.

XX Human; chromosome mapping; gene mapping; gene therapy; forensic;  
XX food supplement; medical imaging; diagnostic; genetic disorder; ss.

XX Homo sapiens.

XX WO200175067-A2.

XX 11-OCT-2001.

XX 30-MAR-2001; 2001WO-US08631.

XX 31-MAR-2000; 2000US-0540217.

XX 23-AUG-2000; 2000US-0649167.

XX (HYSE-) HYSEQ INC.

XX Drmanac RT, Liu C, Tang YT;

XX WPI; 2001-639362/73.

DR P-PSDB; ABG12156.

XX  
PT  
PT  
PT  
XX

New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity -

Claim 1; SEQ ID No 12147; 103pp; English.

XX

The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes. polymerase chain reaction (PCR) primers, oligomers, and for chromosome mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic coding sequences of the invention.

Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.

XX SQ Sequence 906 BP; 175 A; 294 C; 286 G; 151 T; 0 other;

Query Match 40.9%; Score 766.6; DB 23; Length 906;  
Best Local Similarity 95.2%; Pred. No. 1.7e-174;  
Matches 801; Conservative 0; Mismatches 39; Indels 1; Gaps 1;

QY 4 TTTTGTCCACAGCCACGCTGACTCTCTGGAGATTTGAATAGCTCCAGCTGAGA 53

Db 8 TTTCTCTGTCAGCCACGCTGACTCTCTGGAGATTTGAATAGCTCCAGCTGAGA 67

QY 64 AACAGCCGGTGGCTGAGCCAGGCTGTGACGGAGCCTGACGGGCCCAACACACCA 123

Db 68 AACAGCCGGTGGCTGAGCCAGGCTGTGACGGAGCCTGACGGGCCCAACACACCA 127

QY 124 TGCTGCATCCAGAGACCTCCCTCTGGCGGGGCATCTCTTGCTGTCTTGGCCCTCC 183

Db 128 TGCTGCATCCAGAGACCTCCCTCTGGCGGGGCATCTCTTGCTGTCTTGGCCCTCC 187

QY 184 TTGGCACCCTGGCGAGGTGTGGCCACCCAGCTGCAGAGCAGGCTCCGATGGCCG 243

Db 188 TTGGCACCCTGGCGAGGTGTGGCCACCCAGCTGCAGAGCAGGCTCCGATGGCCG 247

QY 244 GAGCCCTGAACAGGAGAGAGTTTCTTCTCTCTCTCCCTGCACACCCCTGCGCAGCT 303

Db 248 GAGCCCTGAACAGGAGAGAGTTTCTTCTCTCTCTCCCTGCACACCCCTGCGCAGCT 307

QY 304 GGGTCCAGCCCTCGGGCTGACATCGGAGGCTGGAGTGGAGTGACAGCTGGCCCAAC 363

Db 308 GGGTCCAGCCCTCGGGCTGACATCGGAGGCTGGAGTGGAGTGACAGCTGGCCCAAC 367

QY 364 TGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCGAGCCTGGCATCGGCGCTG 423

Db 368 TGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCGAGCCTGGCGCTGGCGCTG 427

QY 424 GCGCACCCTGCAAGTGGGCTGGAACATGACGTGCTGCGCGGGCTTTGGCTCTCTTG 483

Db 428 GCGCACCCTGCAAGTGGGCTGGAACATGACGTGCTTACCGGGCTTTGGCTCTCTTG 487

QY 484 TTGAAGTGGTACGCTATGTTTTCAGAGGGGCGGCTACAGCCACGCGGAGAGAGT 543

Db 488 TCGAAGTGGTACGCTATGTTTTCAGAGGGGCGGCTACAGCCACGCGGAGAGAGT 547

QY 544 GTGCTCGCAACGCCACCTGCACCCACTACAGCAGTCTGTGTGGGCCACCTCAAGCCAGC 603



Db 548 GAGCTCGCAACGCCACCTGCACCCACTACATGAGCTCGTGTGGGCCACCTCAAGCCAGC 607  
QY 604 TGGGCTGTGGGGGACCTGTGCTCTGCAGGCCAGACGATAGAGCCCTTTGCTGTG 663  
Db 608 TGGGCTGTGGGGGACCTGTGCTCTGCAGGCCAGGCGATAGAGCCCTTTGCTGTG 667  
QY 664 CTTACTTCCCGGAGGCAACTGGGAGGTCAACGGGAGCAATCATCCCTATAAAGAGG 723  
Db 668 CTTACTTCCCGGAGGCAACTGGGAGGTCAACGGGAGCAATCATCCCTATAAAGAGG 727  
QY 724 GTGCCCTGTGCTCTGCAGGCCAGGTCTCAGGCTCTTCAAGGCTGGGACCATG 783  
Db 728 GGGCCCTGGGGCTGTGCTCTGCAGGCCAGGTCTCAGGCTCTTAAAGCCTGGGACCATG 787  
QY 784 CAGGGGGGCT-CTGTGAGGTCCCGAGGAATCCTTGTGCGATGAGCTGCCAGAACCATGGA 842  
Db 788 CCAGGGGGCTACTGGGGGGCCCCCGGAAACCTTGGGGAAGGAGCGACAGAACCCCTTGA 847  
QY 843 C 843  
Db 848 C 848  
  
RESULT 14  
AA70010  
ID AAA70010 standard; cDNA; 690 BP.  
AC AAA70010;  
XX  
DT 07-NOV-2000 (first entry)  
XX  
XX Human ovarian carcinoma antigen polynucleotide SEQ ID NO:321.  
DE Human; ovarian carcinoma; ovarian cancer; therapy; diagnosis;  
KW tumour antigen; identification; cytostatic; gene therapy; vaccine; ss.  
XX  
XX Homo sapiens.  
XX  
XX WO200036107-A2.  
PN  
XX  
PD 22-JUN-2000.  
XX  
PF 17-DEC-1999; 99WO-US30270.  
XX  
PR 17-DEC-1998; 98US-0215681.  
PR 17-DEC-1998; 98US-0216003.  
PR 23-JUN-1999; 99US-0338933.  
PR 24-SEP-1999; 99US-0404879.  
XX  
XX (CORI-) CORIXA CORP.  
XX  
XX Mitcham JL, King GE, Algate PA, Frudakis TN;  
PI  
XX  
XX WPI; 2000-431589/37.  
XX  
PT Immunogenic portion of an ovarian carcinoma protein and the nucleic  
PT acid encoding it, useful for the diagnosis, prevention and treatment of  
PT cancer, preferably ovarian cancer -  
XX  
XX  
XX Claim 1; Page 177; 299pp; English.  
XX  
XX The present invention describes an isolated polypeptide comprising an  
CC immunogenic portion of an ovarian carcinoma protein (or its variants).  
CC Ovarian carcinoma proteins, and polynucleotides encoding them, have  
CC cytostatic activity and can be used in gene therapy and vaccines.  
CC Ovarian carcinoma polypeptides, nucleic acids, antibodies and vaccines  
CC are useful for the prevention, diagnosis and treatment of cancer.  
CC preferably ovarian cancer. AA669691 to AA70077 and AAB12552 to AAB12557  
CC represent human ovarian carcinoma polynucleotides and proteins used in  
CC the exemplification of the present invention.  
XX  
XX Sequence 690 BP; 148 A; 197 C; 212 G; 131 T; 2 other;

Query Match 35.9%; Score 672.8; DB 21; Length 690;  
Best Local Similarity 99.3%; Pred No. 5e-152;  
Matches 685; Conservative 0; Mismatches 4; Indels 1; Gaps 1;  
  
QY 604 TGGGCTGTGGGGGACCTGTGCTCTGCAGGCCAGACGATAGAGCCCTTTGCTGTG 663  
Db 1 TGGGCTGTGGGGGACCTGTGCTCTGCAGGCCAGACGATAGAGCCCTTTGCTGTG 60  
QY 664 CTTACTTCCCGGAGGCAACTGGGAGGTCAACGGGAGCAATCATCCCTATAAAGAGG 723  
Db 61 CTTACTTCCCGGAGGCAACTGGGAGGTCAACGGGAGCAATCATCCCTATAAAGAGG 120  
QY 724 GTGCCCTGTGCTCTGCAGGCCAGGTCTCAGGCTCTTCAAGGCTGGGACCATG 783  
Db 121 GTGCCCTGTGCTCTGCAGGCCAGGTCTCAGGCTCTTCAAGGCTGGGACCATG 180  
QY 784 CAGGGGGGCTCTGTGAGGTCCCGAGGAATCCTTGTGCGATGAGCTGCCAGAACCATG 843  
Db 181 CAGGGGGGCTCTGTGAGGTCCCGAGGAATCCTTGTGCGATGAGCTGCCAGAACCATG 240  
QY 844 GTCTCAACATCAGCACCTGCCACTGCCACTGTCCCTGGCTACAGGGCAGATCTGCC 903  
Db 241 GTCTCAACATCAGCACCTGCCACTGCCACTGTCCCTGGCTACAGGGCAGATCTGCC 300  
QY 904 AAGTGAGGTGAGGCTGAGTGTGTCAGCGCCGGTTCGGGGAGGAGGTCTCGTGG 963  
Db 301 AAGTGAGGTGAGGCTGAGTGTGTCAGCGCCGGTTCGGGGAGGAGGTCTCGTGG 360  
QY 964 TCTGTGACATCGGCTACGGGGAGCCAGTGTGCCACCAAGGTGATTTCCCTTCCACA 1023  
Db 361 TCTGTGACATCGGCTACGGGGAGCCAGTGTGCCACCAAGGTGATTTCCCTTCCACA 420  
QY 1024 CTTGTGACCTGAGGATCGACGGAGACTGCTTCATGGTGTCTTCAGAGGAGACACTATT 1083  
Db 421 CTTGTGACCTGAGGATCGACGGAGACTGCTTCATGGTGTCTTCAGAGGAGACACTATT 480  
QY 1084 ACAG-AGCCAGGATGAAATGTGAGGAAAGCGGGGTGCTGCCAGATCAAGAGCCAG 1142  
Db 481 ACAGAGCCAGGATGAAATGTGAGGAAAGCGGGGTGCTGCCAGATCAAGAGCCAG 540  
QY 1143 AAAGTGAGGACATCTCGCTTCTATCTGGGCCGCTGGAGACCAACAGAGGTGACT 1202  
Db 541 AAAGTGAGGACATCTCGCTTCTATCTGGGCCGCTGGAGACCAACAGAGGTGACT 600  
QY 1203 GACAGTGACTTCGAGACCAAGCAACTTCTGGATCGGGCTCACCTACAAGACCGCAAGGAC 1262  
Db 601 GACAGTGACTTCGAGACCAAGCAACTTCTGGATCGGGCTCACCTACAAGACCGCAAGGAC 660  
QY 1263 TCCTTCCGCTGGGCCACAGGGGAGCACCAG 1292  
Db 661 TCCTTNGCTGGGCCACAGGGGAGCACCAG 690

## RESULT 15

ABN72904  
ID ABN72904 standard; DNA; 690 BP.  
XX  
AC ABN72904;  
XX  
DT 02-JUL-2002 (first entry)  
XX  
DE Ovarian carcinoma antigen polynucleotide #9.  
XX  
KW Human; immunostimulant; cytostatic; cancer; ovarian carcinoma; ds.  
XX  
OS Homo sapiens.  
XX  
XX WO200206317-A2.  
PN  
XX  
PD 24-JAN-2002.  
XX  
PF 17-JUL-2001; 2001WO-US22635.



XX 17-JUL-2000; 2000US-0617747.  
PR 10-AUG-2000; 2000US-0636801.  
PR 20-SEP-2000; 2000US-0667857.  
PR 04-APR-2001; 2001US-0827271.  
PR 18-JUN-2001; 2001US-0884441.  
XX (CORI-) CORIXA CORP.  
XX Mitcham JL, King GE, Algate PA, Fling SP, Retter MW, Fanger GR;  
PI Reed SG, Vedvick TS, Carter D, Hill P, Albone E;  
XX DR WPI; 2002-164781/21.  
XX  
XX Polypeptides comprising an immunogenic portion of an ovarian carcinoma  
PT protein or its variants, useful for stimulating an immune response in a  
PT patient and treating ovarian cancer -  
XX  
XX Example 2; Page 296; 408pp; English.  
XX  
XX This invention relates to polypeptides comprising an immunogenic  
CC portion of an ovarian carcinoma protein which acts as an  
CC immunostimulant and is cytostatic. The polypeptides, polynucleotides,  
CC antibodies, fusion proteins, T cell populations and antigen presenting  
CC cells that express the polypeptides are useful for stimulating an  
CC immune response in a patient and treating ovarian cancer. This  
CC sequence represents DNA related to the invention.  
XX  
XX  
SQ Sequence 690 BP; 148 A; 197 C; 212 G; 131 T; 2 other;  
  
Query Match 35.9%; Score 672.8; DB 24; Length 690;  
Best Local Similarity 99.3%; Pred. No. 5.5e-152;  
Matches 685; Conservative 0; Mismatches 4; Indels 1; Gaps 1;  
  
QY 604 TGGGCTGTGGCGGCACCTGTGCTCTCAGGCCACAGACAGCCCTTTGTCTGTG 663  
Db 1 TGGGCTGTGGCGGCACCTGTGCTCTCAGGCCACAGACAGCCCTTTGTCTGTG 60  
  
QY 664 CCTACTCCCCGGGAGGCACTGGGAGGTCAACGGGAGAGCAATCATCCCTATAAGAGG 723  
Db 61 CCTACTCCCCGGGAGGCACTGGGAGGTCAACGGGAGAGCAATCATCCCTATAAGAGG 120  
  
QY 724 GTGCTGTGTCTGCTGTGACAGCCAGTGTCTCAGGCTGTCTCAAAGCTGGGACCATG 783  
Db 121 GTGCTGTGTCTGCTGTGACAGCCAGTGTCTCAGGCTGTCTCAAAGCTGGGACCATG 180  
  
QY 784 CAGGGGGCTCTGTGAGGTGCCCCAGGAATCCTTGTGCGATGAGTGTCCAGAACCATGGAC 843  
Db 181 CAGGGGGCTCTGTGAGGTGCCCCAGGAATCCTTGTGCGATGAGTGTCCAGAACCATGGAC 240  
  
QY 844 GTCTCAACATCAGCACCTGCCACTGCCACTGTCCCTCTGCTACACGGGCAGATACTGCC 903  
Db 241 GTCTCAACATCAGCACCTGCCACTGCCACTGTCCCTCTGCTACACGGGCAGATACTGCC 300  
  
QY 904 AAGTGAGGTGAGCTGTGAGTGTGACAGCGCGGTTCGGGAGGAGGAGTGTCTGTGGG 963  
Db 301 AAGTGAGGTGAGCTGTGAGTGTGACAGCGCGGTTCGGGAGGAGGAGTGTCTGTGGG 360  
  
QY 964 TCTGTACATCGGTACGGGGAGCCCAAGTGTGCCACCAAGTGCATTTTCCCTTCCACA 1023  
Db 361 TCTGTACATCGGTACGGGGAGCCCAAGTGTGCCACCAAGTGCATTTTCCCTTCCACA 420  
  
QY 1024 CCTGTGACCTGAGATCGACGAGACTGCTTCATGTTCTTCAGAGGCAGACACTATT 1083  
Db 421 CCTGTGACCTGAGATCGACGAGACTGCTTCATGTTCTTCAGAGGCAGACACTATT 480  
  
QY 1084 ACAG-AGCCAGGATGAATGTTCAGAGGAAAGCGGGGTGCTGGCCCGAGATCAAGAGCCAG 1142  
Db 481 ACAGAGCCAGGATGAATGTTCAGAGGAAAGCGGGGTGCTGGCCCGAGATCAAGAGCCAG 540  
  
QY 1143 AAAGTGCAGGACATCCTCGCCTTCTATCTGGGCCGCCCTGGAGACCAACCAAGGTGACT 1202  
Db 541 AAAGTGCAGGACATCCTCGCCTTCTATCTGGGCCGCCCTGGAGACCAACCAAGGTGACT 600

QY 1203 GACAGTGAATTCGAGACACAGGAACTTCTGGATCGGCTCACTACAAAGACGCCCAAGGAC 1262  
Db 601 GACAGTGAATTCGAGACACAGGAACTTCTGGATNGGCTCACTACAAAGACGCCCAAGGAC 660  
QY 1263 TCCTTCCGCTGGGCCACAGGGGAGCACCAG 1292  
Db 661 TCCTTNCGCTGGGCCACAGGGGAGCACCAG 690  
  
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Job time : 380.501 secs



GenCore version 5.1.3  
Copyright (c) 1993 - 2002 CompuGen Ltd.

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Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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1: gb\_ba.\*

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4: gb\_ov.\*

5: gb\_pat.\*

6: gb\_ph.\*

7: gb\_pl.\*

8: gb\_pr.\*

9: gb\_ro.\*

10: gb\_sts.\*

11: gb\_sy.\*

12: gb\_un.\*

13: gb\_vl.\*

14: gb\_vl.\*

15: em\_ba.\*

16: em\_fun.\*

17: em\_hum.\*

18: em\_in.\*

19: em\_mu.\*

20: em\_or.\*

21: em\_ov.\*

22: em\_pat.\*

23: em\_ph.\*

24: em\_pl.\*

25: em\_ro.\*

26: em\_sts.\*

27: em\_un.\*

28: em\_vl.\*

29: em\_vl.\*

30: em\_htg\_hum.\*

31: em\_htg\_inv.\*

32: em\_htg\_other.\*

33: em\_htg\_mus.\*

34: em\_htg\_pln.\*

35: em\_htg\_rod.\*

36: em\_htg\_mam.\*

37: em\_htg\_vrt.\*

38: em\_sy.\*

39: em\_htgo\_hum.\*

40: em\_htgo\_mus.\*

41: em\_htgo\_other.\*

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

| Result No. | Score | % Match | Length | DB | ID        | Description        |
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| 1          | 245.4 | 99.4    | 1341   | 6  | AX191493  | AX191493 Sequence  |
| 2          | 245.4 | 99.4    | 1775   | 6  | AX191503  | AX191503 Sequence  |
| 3          | 240.6 | 97.4    | 3293   | 9  | HSM804652 | AL833339 Homo sapi |
| 4          | 231   | 93.5    | 2900   | 9  | AB060195  | AB060195 Macaca fa |
| 5          | 108.8 | 44.0    | 163427 | 9  | AC009053  | AC009053 Homo sapi |
| 6          | 108.8 | 44.0    | 177479 | 9  | AC009153  | AC009153 Homo sapi |
| 7          | 108.8 | 44.0    | 180596 | 9  | AC009060  | AC009060 Homo sapi |
| 8          | 108.8 | 44.0    | 197460 | 2  | AC126771  | AC126771 Homo sapi |
| 9          | 108.8 | 44.0    | 205044 | 2  | AC009125  | AC009125 Homo sapi |
| 10         | 107.4 | 43.5    | 200409 | 2  | AC097331  | AC097331 Pan trogl |
| 11         | 107.2 | 43.4    | 79023  | 2  | AC021951  | AC021951 Homo sapi |
| 12         | 107.2 | 43.4    | 204182 | 2  | AC097271  | AC097271 Pan trogl |
| 13         | 105.6 | 42.8    | 179575 | 9  | AC026468  | AC026468 Homo sapi |
| 14         | 105.6 | 42.8    | 190595 | 9  | AC009022  | AC009022 Homo sapi |
| 15         | 104   | 42.1    | 191108 | 2  | AC097265  | AC097265 Pan trogl |
| 16         | 95.8  | 38.8    | 2340   | 9  | AK096051  | AK096051 Homo sapi |
| 17         | 95.8  | 38.8    | 200409 | 2  | AC097331  | AC097331 Pan trogl |
| 18         | 69    | 27.9    | 200755 | 2  | AC093451  | AC093451 Mus muscu |
| 19         | 62.2  | 25.2    | 179237 | 2  | AC111287  | AC111287 Rattus no |
| 20         | 62.2  | 25.2    | 197326 | 2  | AC098076  | AC098076 Rattus no |
| 21         | 46.6  | 18.9    | 857    | 9  | BC007689  | BC007689 Homo sapi |
| 22         | 46.6  | 18.9    | 1491   | 6  | AX101173  | AX101173 Sequence  |
| 23         | 46.6  | 18.9    | 1669   | 6  | AX235371  | AX235371 Sequence  |
| 24         | 46.6  | 18.9    | 1690   | 9  | AK027395  | AK027395 Homo sapi |
| 25         | 46.6  | 18.9    | 1824   | 6  | AX358802  | AX358802 Sequence  |
| 26         | 46.6  | 18.9    | 1824   | 6  | AX362295  | AX362295 Sequence  |
| 27         | 46.6  | 18.9    | 1824   | 6  | AX101175  | AX101175 Sequence  |
| 28         | 46.6  | 18.9    | 2400   | 6  | AX235369  | AX235369 Sequence  |
| 29         | 46.6  | 18.9    | 2403   | 6  | AX235373  | AX235373 Sequence  |
| 30         | 46.6  | 18.9    | 2412   | 6  | AX235375  | AX235375 Sequence  |
| 31         | 46.6  | 18.9    | 4574   | 6  | AX086850  | AX086850 Sequence  |
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| 33         | 46.6  | 18.9    | 4877   | 6  | AX285067  | AX285067 Sequence  |
| 34         | 46.6  | 18.9    | 4877   | 6  | AX285068  | AX285068 Sequence  |
| 35         | 46.6  | 18.9    | 4877   | 6  | AX285079  | AX285079 Sequence  |
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| 37         | 45.6  | 18.5    | 2305   | 6  | AX235367  | AX235367 Sequence  |
| 38         | 42.8  | 17.3    | 2849   | 1  | STMAMPEP  | L23172 Streptomyce |
| 39         | 42.8  | 17.3    | 33084  | 1  | SC8E4A    | AL138562 Streptomy |
| 40         | 39.2  | 15.9    | 39525  | 1  | SCF91     | AL132973 Streptomy |
| 41         | 38.2  | 15.5    | 2139   | 9  | AK091893  | AK091893 Homo sapi |
| 42         | 38.2  | 15.5    | 10746  | 1  | AE004671  | AE004671 Pseudomon |
| 43         | 38.2  | 15.5    | 113193 | 1  | AF357202  | AF357202 Streptomy |
| 44         | 38.2  | 15.5    | 133004 | 2  | AC068965  | AC068965 Homo sapi |
| 45         | 38.2  | 15.5    | 151828 | 9  | AL354740  | AL354740 Human DNA |

# ALIGNMENTS

RESULT 1  
AX191493  
LOCUS  
DEFINITION Sequence 15 from Patent WO0149728.  
ACCESSION AX191493  
VERSION AX191493.1 GI:15209675  
KEYWORDS human.  
SOURCE  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE  
AUTHORS 1 (bases 1 to 1341)  
TITLE Kato,S. and Kimura,T.  
Human proteins having hydrophobic domains and dnas encoding these proteins

Pred. No. is the number of results predicted by chance to have a

JOURNAL Patent: WO 0149728-A 15 12-JUL-2001;  
Protegene Inc. (JP); SAGAMI CHEMICAL RESEARCH CENTER (JP)  
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1. .1341  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
BASE COUNT 260 a 420 c 414 g 247 t  
ORIGIN  
Query Match 99.4%; Score 245.4; DB 6; Length 1341;  
Best Local Similarity 99.6%; Pred. No. 1.9e-46;  
Matches 246; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 GAGGTGTGGCCACCCAGCTGCGAGGAGCGCTCCGATGCGCGGAGCCCTGAACAGGAAG 60  
Db 79 GAGGTGTGGCCACCCAGCTGCGAGGAGCGCTCCGATGCGCGGAGCCCTGAACAGGAAG 138  
QY 61 GAGAGTTTCTTGCTCTCTCCCTGCGACACCGCTGCGGAGCTGGTCCAGCCCTGCG 120  
Db 139 GAGAGTTTCTTGCTCTCTCCCTGCGACACCGCTGCGGAGCTGGTCCAGCCCTGCG 198  
QY 121 GCTGACATGCGGAGGCTGGAGTGCAGAGCGCTCCGATGCGCGGAGCCCTGAACAGGAAG 180  
Db 199 GCTGACATGCGGAGGCTGGAGTGCAGAGCGCTCCGATGCGCGGAGCCCTGAACAGGAAG 258  
QY 181 GCCTCTGTGGAATCCAAACCCGAGCGCTGGCATCCGCGCCCTGTGGCGCACCCCTGCAAGTG 240  
Db 259 GCCTCTGTGGAATCCAAACCCGAGCGCTGGCATCCGCGCCCTGTGGCGCACCCCTGCAAGTG 318  
QY 241 GGCTGGA 247  
Db 319 GGCTGGA 325  
RESULT 2  
AX191503  
LOCUS AX191503 1775 bp DNA linear PAT 15-AUG-2001  
DEFINITION Sequence 25 from Patent WO0149728.  
ACCESSION AX191503  
VERSION AX191503.1 GI:15209689  
KEYWORDS  
SOURCE human.  
ORGANISM  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE  
AUTHORS Kato, S. and Kimura, T.  
TITLE Human proteins having hydrophobic domains and dnas encoding these proteins  
JOURNAL Patent: WO 0149728-A 25 12-JUL-2001;  
Protegene Inc. (JP); SAGAMI CHEMICAL RESEARCH CENTER (JP)  
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LGGCHLCSAGAAIEAFVCAYSPGNWEVNGKTIIPYKKGAWCSLCTASVSGCFKAW  
DHAGLCEVPNRCNMQNGLRLNISTCHCPGPGYTCQVRCISLQCVHGRPRE  
ECSVCVDIGGAQCATVHPFFHCDLRIIDGDFWSEADTYRARKMCKORKGVL  
AQIKSKQVODLAFVLGLETTNFEVDSDFETNFEVIGLTKYTKADSPWATGEHQAF  
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BASE COUNT 360 a 541 c 549 g 325 t  
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Best Local Similarity 99.6%; Pred. No. 1.8e-46;

Matches 246; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
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Db 140 GAGGTGTGGCCACCCAGCTGCGAGGAGCGCTCCGATGCGCGGAGCCCTGAACAGGAAG 199  
QY 61 GAGAGTTTCTTGCTCTCTCCCTGCGACACCGCTGCGGAGCTGGTCCAGCCCTGCG 120  
Db 200 GAGAGTTTCTTGCTCTCTCCCTGCGACACCGCTGCGGAGCTGGTCCAGCCCTGCG 259  
QY 121 GCTGACATGCGGAGGCTGGAGTGCAGAGCGCTCCGATGCGCGGAGCCCTGAACAGGAAG 180  
Db 260 GCTGACATGCGGAGGCTGGAGTGCAGAGCGCTCCGATGCGCGGAGCCCTGAACAGGAAG 319  
QY 181 GCCTCTGTGGAATCCAAACCCGAGCGCTGGCATCCGCGCCCTGTGGCGCACCCCTGCAAGTG 240  
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QY 241 GGCTGGA 247  
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RESULT 3  
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LOCUS HSM804652 3293 bp mRNA linear PRI 10-JUL-2002  
DEFINITION Homo sapiens mRNA; cDNA DKFZp686E1934 (from clone DKFZp686E1934).  
ACCESSION AL833339  
VERSION AL833339.1 GI:21733974  
KEYWORDS  
SOURCE human.  
ORGANISM  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE  
AUTHORS Ottenwaelder, B., Obermaier, B., Mewes, H.W., Weil, B., Amid, C. and Wiemann, S.  
TITLE Direct Submission  
JOURNAL Submitted (09-JUL-2002) 1, D-85764 Neuherberg, GERMANY  
COMMENT Cloned from S. Wiemann, Molecular Genome Analysis, German Cancer Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de; sequenced by MediGenomix (Martinsried/Germany) within the CDNA sequencing consortium of the German Genome Project. This clone (DKFZp686E1934) is available at the RZPD in Berlin. Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059 Berlin-Charlottenburg, GERMANY; Email: clone@rzd.de Further information about the clone and the sequencing project is available at http://mips.gsf.de/proj/cDNA/.  
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Best Local Similarity 98.4%; Pred. No. 2e-45;  
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Db 332 GAGAGTTTCTTGCTCTCTCCCTGCGACACCGCTGCGGAGCTGGTCCAGCCCTGCG 391











|           |  |
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| TITLE     | Douthwaite, K. J., Draper, H., Dugan-Rocha, S., Durbin, K. J., Earnhart, C., Edgar, D., Edwards, C. C., Elhaj, C., Escotto, M., Falls, T., Ferraruto, D., Flagg, N., Ford, J., Foster, P., Frantz, P., Gabisi, A., Gao, J., Garcia, A., Garner, T., Garza, N., Gill, R., Gorrell, J. H., Guevara, W., Gunaratne, P., Hale, S., Hamilton, K., Harris, K., Hart, M., Haviak, P., Hawes, A., Hernandez, J., Hernandez, O., Hodgson, A., Hogues, M., Holloway, C., Hollins, B., Homsi, F., Howard, S., Huber, J., Hulyk, S., Hume, J., Jackson, L. E., Jacobson, B., Jia, Y., Johnson, R., Jolivet, S., Joudah, S., Karlsson, E., Kelly, S., Khan, U., King, L., Korvah, J., Kovar, C., Kratovic, J., Kureshi, A., Landry, N., Leal, B., Lewis, L. C., Lewis, L., Li, J., Li, Z., Lichtarge, O., Lieu, C., Liu, J., Liu, W., Loulseged, H., Lozdo, R. J., Lu, X., Lucier, A., Lucier, R., Luna, R., Ma, J., Maheshwari, M., Mapua, P., Martin, R., Martindale, A., Martinez, E., Massey, E., Mawhinney, E., McLeod, M. P., Meador, M., Mei, G., Metzker, M., Miner, G., Miner, Z., Mitchell, T., Mohabbat, K., Morgan, M., Morris, S., Moser, M., Neal, D., Newton, J., Newton, N., Nguyen, A., Nguyen, N., Nguyen, N., Nickerson, E., Nwokenkwo, S., Ogih, M., Okuwonu, G., Oragunye, N., Oviedo, R., Pace, A., Payton, B., Peary, J., Perez, L., Peters, L., Pickens, R., Primus, E., Pu, L. L., Quiles, M., Ren, Y., Rives, M., Rojas, A., Rojibokan, I., Rolfe, M., Ruiz, S., Savery, G., Scherer, S., Scott, G., Shen, H., Shooshtari, N., Sisson, I., Sodergren, E., Sonaike, T., Sparks, A., Stanley, H., Stone, H., Sutton, A., Svatek, A., Taber, P., Tamerisa, A., Tamerisa, K., Tang, H., Tansey, J., Taylor, C., Taylor, T., Telford, B., Thomas, N., Thomas, S., Usmani, K., Vasquez, L., Vera, V., Villalon, D., Vinson, R., Wang, Q., Wang, S., Ward-Moore, S., Warren, R., Washington, C., Watlington, S., Williams, G., Williamson, A., Wleczyk, R., Wooden, S., Worley, K., Wu, C., Wu, Y., Wu, Y. F., Zhou, J., Zorrilla, S., Nelson, D., Weinstock, G. and Gibbs, R. |
| REFERENCE | Unpublished  |
| AUTHORS   | 2 (bases 1 to 200409)  |
| TITLE     | Worley, K. C.  |
| JOURNAL   | Submitted (14-OCT-2001) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA   |
| REFERENCE | 3 (bases 1 to 200409)  |
| AUTHORS   | Worley, K. C.  |
| TITLE     | Submitted (22-JUN-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA   |
| JOURNAL   | On Jun 21, 2002 this sequence version replaced gi:21450389.  |
| COMMENT   | ----- Genome Center<br>Center: Baylor College of Medicine<br>Center code: BCM<br>Web site: <a href="http://www.hgsc.bcm.tmc.edu/">http://www.hgsc.bcm.tmc.edu/</a><br>Contact: hgsc-help@bcm.tmc.edu<br>----- Project Information<br>Center project name: ZUAQ<br>Center clone name: RP43-53A2<br>----- Summary Statistics<br>Sequencing vector: Plasmid; M7789<br>Chemistry: dye-terminator Big Dye; 100% of reads<br>Assembly program: Phrap; version 0.990329<br>Consensus quality: 187810 bases at least Q40<br>Consensus quality: 190821 bases at least Q30<br>Consensus quality: 193098 bases at least Q20<br>Estimated insert size: 122811; sum-of-contigs estimation<br>Quality coverage: 0x in Q20 bases; agarose-gel estimation<br>Quality coverage: 9.3x in Q20 bases; sum-of-contigs estimation<br>-----<br>* NOTE: Estimated insert size may differ from sequence length<br>* (see <a href="http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html">http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html</a> )<br>* NOTE: This is a 'working draft' sequence. It currently<br>* consists of 14 contigs. The true order of the pieces<br>* is not known and their order in this sequence record is<br>* arbitrary. Gaps between the contigs are represented as<br>* runs of N, but the exact sizes of the gaps are unknown.<br>* This record will be updated with the finished sequence<br>* as soon as it is available and the accession number will  |

[illegible]

Landers, T., Lehoczy, J., Levine, R., Lieu, C., Liu, G., Locke, K.,  
 Macdonald, P., Marquis, N., McEwan, P., McGurk, A., McKernan, K.,  
 McPheeters, R., Meldrum, J., Meneus, L., Morrow, J., Naylor, J.,  
 Norman, C. H., O'Connor, T., O'Donnell, P., Oliver, T. M., Peterson, K.,  
 Pierre, N., Pisani, C., Pollara, V., Raymond, C., Riley, R., Rothman, D.,  
 Roy, A., Santos, R., Severy, P., Spencer, B., Stange-Thomann, N.,  
 Stojanovic, N., Subramanian, A., Talamas, J., Tesfaye, S., Theodore, J.,  
 Tirrell, A., Vassiliev, H., Viel, R., Vo, A., Wu, X., Wyman, D., Ye, W. J.,  
 Zimmer, A. and Zody, M.

# TITLE JOURNAL

## COMMENT

Submitted (22-JAN-2000) Whitehead Institute/MIT Center for Genome  
 Research, 320 Charles Street, Cambridge, MA 02141, USA  
 On Jul 13, 2000 this sequence version replaced gi:6730807.

All repeats were identified using RepeatMasker:

Smith, A.F.A. & Green, P. (1996-1997)

<http://ftp.genome.washington.edu/RM/RepeatMasker.html>

----- Genome Center

Center: Whitehead Institute/ MIT Center for Genome Research

Center code: WIBR

Web site: <http://www-seq.wi.mit.edu>

Contact: [sequence\\_submissions@genome.wi.mit.edu](mailto:sequence_submissions@genome.wi.mit.edu)

----- Project Information

Center project name: L5885

Center clone name: 396\_D\_24

-----

\* NOTE: This record contains 79 individual

\* sequencing reads that have not been assembled into  
 \* contigs. Runs of N are used to separate the reads  
 \* and the order in which they appear is completely  
 \* arbitrary. Low-pass sequence sampling is useful for  
 \* identifying clones that may be gene-rich and allows  
 \* overlap relationships among clones to be deduced.  
 \* However, it should not be assumed that this clone  
 \* will be sequenced to completion. In the event that  
 \* the record is updated, the accession number will  
 \* be preserved.

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 910 1009: gap of 100 bp  
 1010 1922: contig of 913 bp in length  
 1923 2022: gap of 100 bp  
 2023 2941: contig of 919 bp in length  
 2942 3041: gap of 100 bp  
 3042 3960: contig of 919 bp in length  
 3961 4060: gap of 100 bp  
 4061 4972: contig of 912 bp in length  
 4973 5072: gap of 100 bp  
 5073 5966: contig of 894 bp in length  
 5967 6066: gap of 100 bp  
 6067 6967: contig of 901 bp in length  
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 30897 30996: gap of 100 bp  
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 33970 34888: contig of 919 bp in length  
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 35881 36880: contig of 900 bp in length  
 36881 37874: contig of 894 bp in length  
 37875 37974: gap of 100 bp  
 37975 38862: contig of 888 bp in length  
 38863 38962: gap of 100 bp  
 38963 39874: contig of 912 bp in length  
 39875 39974: gap of 100 bp  
 39975 40899: contig of 925 bp in length  
 40900 40999: gap of 100 bp  
 41000 41911: contig of 912 bp in length  
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 43022 43934: contig of 913 bp in length  
 43935 44034: gap of 100 bp  
 44035 44952: contig of 918 bp in length  
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 45951 46050: gap of 100 bp  
 46051 46928: contig of 878 bp in length  
 46929 47028: gap of 100 bp  
 47029 47925: contig of 897 bp in length  
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 51009 51918: contig of 910 bp in length  
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 52019 52934: contig of 916 bp in length  
 52935 53034: gap of 100 bp  
 53035 53922: contig of 888 bp in length  
 53923 54022: gap of 100 bp  
 54023 54914: contig of 892 bp in length  
 54915 55014: gap of 100 bp

| Query Match | Best Local Similarity   | Matches          | Score     | DB 1       | DB 2            | Length | 79023; |
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| 55925       | 56024:  | gap of 100 bp    | in length |            |                 |        |        |
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| 56910       | 57009:  | gap of 100 bp    | in length |            |                 |        |        |
| 57010       | 57902:  | contig of 893 bp | in length |            |                 |        |        |
| 57903       | 58002:  | gap of 100 bp    | in length |            |                 |        |        |
| 58003       | 58884:  | contig of 882 bp | in length |            |                 |        |        |
| 58885       | 58984:  | gap of 100 bp    | in length |            |                 |        |        |
| 58985       | 58995:  | contig of 911 bp | in length |            |                 |        |        |
| 58996       | 60882:  | contig of 887 bp | in length |            |                 |        |        |
| 60883       | 60982:  | gap of 100 bp    | in length |            |                 |        |        |
| 60983       | 61906:  | contig of 924 bp | in length |            |                 |        |        |
| 61907       | 62006:  | gap of 100 bp    | in length |            |                 |        |        |
| 62007       | 62901:  | contig of 895 bp | in length |            |                 |        |        |
| 62902       | 63001:  | gap of 100 bp    | in length |            |                 |        |        |
| 63002       | 63892:  | contig of 891 bp | in length |            |                 |        |        |
| 63893       | 63992:  | gap of 100 bp    | in length |            |                 |        |        |
| 63993       | 64887:  | contig of 895 bp | in length |            |                 |        |        |
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| 64988       | 65885:  | contig of 898 bp | in length |            |                 |        |        |
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| 65986       | 66885:  | contig of 900 bp | in length |            |                 |        |        |
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| 66986       | 67867:  | contig of 882 bp | in length |            |                 |        |        |
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| 68878       | 68977:  | gap of 100 bp    | in length |            |                 |        |        |
| 68978       | 69871:  | contig of 894 bp | in length |            |                 |        |        |
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| 70885       | 70984:  | gap of 100 bp    | in length |            |                 |        |        |
| 136         | CTGACTGGAGTGACAGCTGGCCCACTGGCTCAAGCAGGAGGAGCCCTCTGTGGAATC   | 195              |           |            |                 |        |        |
| 53278       | CAGGACTGGAGTGACAGCTGGCCCACTGGCTCAAGCAGGAGGAGCCCTCTGTGGAATC  | 53219            |           |            |                 |        |        |
| 196         | CAACCCCGAGCTGGCATCGGCTCGGCGCACCCCTGCAAGTGGGCTGGA  | 247              |           |            |                 |        |        |
| 53218       | CAACCCCGAGCTGGCGTCCGGCATGTGGCGCACCCCTGCAAGTGGGCTGGA   | 53167            |           |            |                 |        |        |
| RESULT 12   | AC097271  | 204182 bp        | DNA       | linear     | HTG 20-OCT-2001 |        |        |
| AC097271    | Pan troglodytes clone RP43-35B16, WORKING DRAFT SEQUENCE, 8   |                  |           |            |                 |        |        |
| LOCUS       | unordered pieces.   |                  |           |            |                 |        |        |
| DEFINITION  | AC097271.1 GI:16117534  |                  |           |            |                 |        |        |
| ACCESSION   | HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.   |                  |           |            |                 |        |        |
| VERSION     | Pan troglodytes.  |                  |           |            |                 |        |        |
| KEYWORDS    | Pan troglodytes   |                  |           |            |                 |        |        |
| SOURCE      | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;   |                  |           |            |                 |        |        |
| ORGANISM    | Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.   |                  |           |            |                 |        |        |
| REFERENCE   | 1 (bases 1 to 204182)   |                  |           |            |                 |        |        |
| AUTHORS     | Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-Osman,F.R., Allen,C., Alsdrooks,S.L., Amarantune,H.C., Are,J.R., Banks,T., Barabara,J., Benton,J., Bimaga,K., Blankenburg,K., Bonlin,D., Bouck,J., Bowles,S., Brieva,M., Brown,E., Brown,M., Bryant,N.P., Buhay,C., Burck,P., Burkett,C., Burrell,K.L., Byrd,N.C., Carron,T.F., Carter,M., Cavazos,S.R., Chacko,J., Chavez,D., Chen,G., Chen,R., Chen,Z., Chowdry,I., Christopoulos,C., Cleveland,C.D., Cox,C., Coyle,M.D., Dathorne,S.R., David,R., Davila,M.L., Davis,C., Davy-Carroll,L., Dederich,D.A., Delaney,K.R., Delgado,O., Denn,A.L., Ding,Y., Dinh,H.H., Douthwaite,K.J., Draper,H., Dugan-Rocha,S., Durbin,K.J., Earnhart,C., Edgar,D., Edwards,C.C., Elhaj,C., Escotto,M., Falls,T., Ferraguto,D., Flagg,N., Ford,J., Foster,P., Frantz,P., Gabisi,A., Gao,J., Garcia,A., Garner,T., Gattas,C., Gill,P., Correll,I.H., Guevara,W., Gunaratne,P., Hale,S., |                  |           |            |                 |        |        |

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

/note="unresolved tandem repeat"  
BASE COUNT      51435 a 43243 c 43697 g 52220 t  
ORIGIN

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Best Local Similarity      96.4%;   Pred. No.le-14;    4;   Indels       0;   Gaps          0;
Matches 108; Conservative     0;   Mismatches              0;

QY 136 CTGGACTGGAGTCACAGCCTTGGCCCAACTCGGCTCAAGCCAGGCAGGCCCTCTGTGGAATC 195
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 188925 CAGGACTGGAGTCACAGCCTTGGCCCAAGTGCGCTCAAGCCAGGCAGGCCCTCTGTGGAACC 188866

QY 196 CCAAACCCCAGCCTGGCATCCGCGCTGTGGCGCACCCCTGCAAGCTGGGCTGGA 247
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 188865 CCAAACCCCAGCCTGGCGTCCGCGCTGTGGCGCACCCCTGCAAGTGGGCTGGA 188814

RESULT 15
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LOCUS Pan troglodytes clone RP43-119N13, WORKING DRAFT SEQUENCE, 4
DEFINITION unordered pieces.
ACCESSION AC097265.3 GI:16328241
VERSION HPG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP; HTGS_ACTIVEFIN.
KEYWORDS Pan troglodytes.
SOURCE Pan troglodytes.
ORGANISM Pan troglodytes.
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Theria; Primates; Catarrhini; Homnidae; Pan.
Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-osman,F.R., Allen,C.,
Alsbrooks,S.L., Amaratunge,H.C., Are,J.R.B., Banks,T., Barbara,J.,
Benton,J., Bimaga,M., Brown,E., Brown,M., Bryant,N.P., Buhay,C.,
Bowie,S., Brieva,K., Burrell,K.L., Byrd,N.C., Carron,T.F.,
Burckett,P., Burket,C., Burrell,K.L., Chavez,D., Chen,G., Chen,R.,
Carter,M., Cavazos,S.R., Chacko,J.J., Chevalier,L.D., Cox,C.,
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Weinstock,G. and Gibbs,R.
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AUTHORS Worley.K.C.

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JOURNAL  
REFERENCE  
AUTHORS



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OM nucleic - nucleic search, using sw model

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(without alignments)  
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Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

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  - 12: gb\_est3:\*\*
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  - 24: em\_gss\_mus:\*\*
  - 25: em\_gss\_other:\*\*
  - 26: em\_gss\_pro:\*\*
  - 27: em\_gss\_rod:\*\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 682 | 19 | 1.0 | 484 | 9  | AI314943  | AI314943 u138d09.x  | c 755 | 19 | 1.0 | 540 | 14 | BQ159611  | BQ159611  |
| 683 | 19 | 1.0 | 484 | 12 | BF508129  | BF508129 UI-H-B14-  | c 756 | 19 | 1.0 | 540 | 14 | BQ159611  | BQ159611  |
| 684 | 19 | 1.0 | 484 | 14 | BQ885536  | BQ885536 AGENCOURT  | c 757 | 19 | 1.0 | 542 | 14 | BQ169608  | BQ169608  |
| 685 | 19 | 1.0 | 486 | 9  | AA390864  | AA390864 zt19a09.s  | c 758 | 19 | 1.0 | 542 | 17 | AQ352027  | AQ352027  |
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| 687 | 19 | 1.0 | 486 | 14 | BQ045122  | BQ045122 UI-CF-ENI  | c 760 | 19 | 1.0 | 543 | 12 | BG879037  | BG879037  |
| 688 | 19 | 1.0 | 487 | 9  | AA846256  | AA846256 a183g05.s  | c 761 | 19 | 1.0 | 544 | 17 | TA299D08P | TA299D08P |
| 689 | 19 | 1.0 | 487 | 10 | BE118824  | BE118824 UI-R-B51-  | c 762 | 19 | 1.0 | 545 | 12 | BG312000  | BG312000  |
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| 691 | 19 | 1.0 | 490 | 17 | TA41D02Q  | TA41D02Q T. brucei  | c 764 | 19 | 1.0 | 546 | 12 | BG878819  | BG878819  |
| 692 | 19 | 1.0 | 491 | 9  | AA939243  | AA939243 q08a02.s   | c 765 | 19 | 1.0 | 546 | 12 | BH032117  | BH032117  |
| 693 | 19 | 1.0 | 493 | 12 | BG085100  | BG085100 H3108F04-  | c 766 | 19 | 1.0 | 547 | 13 | BI556933  | BI556933  |
| 694 | 19 | 1.0 | 495 | 12 | BG376666  | BG376666 UI-R-CU0-  | c 767 | 19 | 1.0 | 547 | 13 | BI556933  | BI556933  |
| 695 | 19 | 1.0 | 495 | 12 | BG376666  | BG376666 UI-R-CU0-  | c 768 | 19 | 1.0 | 547 | 13 | BI556933  | BI556933  |
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| 697 | 19 | 1.0 | 497 | 13 | BM565326  | BM565326 ih37f04.x  | c 770 | 19 | 1.0 | 548 | 13 | BQ129854  | BQ129854  |
| 698 | 19 | 1.0 | 498 | 12 | BF708396  | BF708396 MI-P-AVO-  | c 771 | 19 | 1.0 | 550 | 9  | AL387387  | AL387387  |
| 699 | 19 | 1.0 | 498 | 13 | BI348696  | BI348696 ic67g03.x  | c 772 | 19 | 1.0 | 551 | 12 | BG879873  | BG879873  |
| 700 | 19 | 1.0 | 499 | 17 | BH881267  | BH881267 hv24d09.b  | c 773 | 19 | 1.0 | 552 | 13 | BM570698  | BM570698  |
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| 702 | 19 | 1.0 | 503 | 9  | AA018789  | AA018789 ze57b10.s  | c 775 | 19 | 1.0 | 553 | 14 | BM141985  | BM141985  |
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| 707 | 19 | 1.0 | 506 | 12 | BG312164  | BG312164 ib04c04.x  | c 780 | 19 | 1.0 | 555 | 12 | BG183461  | BG183461  |
| 708 | 19 | 1.0 | 508 | 10 | AV916833  | AV916833 AV916833   | c 781 | 19 | 1.0 | 555 | 14 | BI791010  | BI791010  |
| 709 | 19 | 1.0 | 509 | 9  | AI809894  | AI809894 wf59604.x  | c 782 | 19 | 1.0 | 556 | 9  | AA854202  | AA854202  |
| 710 | 19 | 1.0 | 510 | 9  | AI647708  | AI647708 uk43f09.x  | c 783 | 19 | 1.0 | 557 | 14 | BQ125916  | BQ125916  |
| 711 | 19 | 1.0 | 510 | 12 | BG397917  | BG397917 602439432  | c 784 | 19 | 1.0 | 558 | 13 | BI439727  | BI439727  |
| 712 | 19 | 1.0 | 511 | 12 | BF365814  | BF365814 RC4-NT005  | c 785 | 19 | 1.0 | 558 | 14 | BQ085823  | BQ085823  |
| 713 | 19 | 1.0 | 511 | 12 | BF365814  | BF365814 RC4-NT005  | c 786 | 19 | 1.0 | 558 | 14 | BQ085823  | BQ085823  |
| 714 | 19 | 1.0 | 513 | 9  | AA602691  | AA602691 np46g09.s  | c 787 | 19 | 1.0 | 559 | 17 | AZ266709  | AZ266709  |
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| 716 | 19 | 1.0 | 514 | 13 | BI672066  | BI672066 ft33g12.x  | c 789 | 19 | 1.0 | 560 | 13 | BI902638  | BI902638  |
| 717 | 19 | 1.0 | 516 | 12 | BG311928  | BG311928 ia99b07.x  | c 790 | 19 | 1.0 | 561 | 13 | BQ0618263 | BQ0618263 |
| 718 | 19 | 1.0 | 516 | 12 | BG655196  | BG655196 ib29d08.x  | c 791 | 19 | 1.0 | 562 | 13 | BM022023  | BM022023  |
| 719 | 19 | 1.0 | 516 | 13 | BI900617  | BI900617 ib82g01.x  | c 792 | 19 | 1.0 | 562 | 14 | BQ126520  | BQ126520  |
| 720 | 19 | 1.0 | 517 | 9  | AI408428  | AI408428 EST236718  | c 793 | 19 | 1.0 | 563 | 9  | AA179336  | AA179336  |
| 721 | 19 | 1.0 | 518 | 9  | AA438004  | AA438004 vd21d01.s  | c 794 | 19 | 1.0 | 564 | 13 | BG926738  | BG926738  |
| 722 | 19 | 1.0 | 519 | 9  | AI689626  | AI689626 tx95c06.x  | c 795 | 19 | 1.0 | 565 | 13 | BI965587  | BI965587  |
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| 726 | 19 | 1.0 | 523 | 12 | BF080032  | BF080032 230758 MA  | c 799 | 19 | 1.0 | 567 | 14 | BQ085273  | BQ085273  |
| 727 | 19 | 1.0 | 523 | 12 | BF334736  | BF334736 PML-CU039  | c 800 | 19 | 1.0 | 568 | 9  | AA536171  | AA536171  |
| 728 | 19 | 1.0 | 523 | 17 | TA51C10Q  | TA51C10Q            | c 801 | 19 | 1.0 | 569 | 13 | BM569926  | BM569926  |
| 729 | 19 | 1.0 | 524 | 9  | AA836348  | AA836348 oe38e07.s  | c 802 | 19 | 1.0 | 569 | 17 | AQ149715  | AQ149715  |
| 730 | 19 | 1.0 | 524 | 9  | AJ395550  | AJ395550 AJ395550   | c 803 | 19 | 1.0 | 570 | 14 | BQ128955  | BQ128955  |
| 731 | 19 | 1.0 | 524 | 12 | BG312045  | BG312045 ib01h07.x  | c 804 | 19 | 1.0 | 571 | 12 | BG270960  | BG270960  |
| 732 | 19 | 1.0 | 524 | 12 | BF007284  | BF007284 1471758 A  | c 805 | 19 | 1.0 | 571 | 14 | BM672357  | BM672357  |
| 733 | 19 | 1.0 | 524 | 14 | H36787    | H36787 14455 Lambd  | c 806 | 19 | 1.0 | 572 | 13 | BM502277  | BM502277  |
| 734 | 19 | 1.0 | 526 | 12 | BG311980  | BG311980 ib02b04.x  | c 807 | 19 | 1.0 | 572 | 14 | BQ085933  | BQ085933  |
| 735 | 19 | 1.0 | 526 | 13 | BI349051  | BI349051 ib95e04.y  | c 808 | 19 | 1.0 | 572 | 14 | BQ129598  | BQ129598  |
| 736 | 19 | 1.0 | 526 | 17 | AQ719059  | AQ719059 HS_5514_B  | c 809 | 19 | 1.0 | 573 | 9  | AI834370  | AI834370  |

|     |    |     |     |    |           |           |           |    |     |     |    |          |          |           |
|-----|----|-----|-----|----|-----------|-----------|-----------|----|-----|-----|----|----------|----------|-----------|
| 810 | 19 | 1.0 | 573 | 12 | BF418796  | BF418796  | UI-R-BJ2- | 19 | 1.0 | 614 | 14 | BM729610 | BM729610 | ih83f07.x |
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| 812 | 19 | 1.0 | 574 | 13 | BI439659  | BI439659  | ib91a08.x | 19 | 1.0 | 615 | 9  | AI587560 | AI587560 | tr52d05.x |
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| 814 | 19 | 1.0 | 574 | 13 | BM877991  | BM877991  | if45g10.x | 19 | 1.0 | 615 | 17 | AZ023692 | AZ023692 | RPCI-23-3 |
| 815 | 19 | 1.0 | 576 | 13 | BI902344  | BI902344  | ih86b04.x | 19 | 1.0 | 616 | 13 | BM569514 | BM569514 | kj62g03.y |
| 816 | 19 | 1.0 | 577 | 13 | BI900573  | BI900573  | ib81h06.x | 19 | 1.0 | 618 | 9  | AI009785 | AI009785 | EST204236 |
| 817 | 19 | 1.0 | 577 | 13 | BI900573  | BI900573  | ib81h06.x | 19 | 1.0 | 618 | 10 | AW123180 | AW123180 | UI-M-BH2. |
| 818 | 19 | 1.0 | 577 | 14 | BQ129589  | BQ129589  | ih31h08.x | 19 | 1.0 | 618 | 10 | BM729571 | BM729571 | ih83a09.x |
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| 820 | 19 | 1.0 | 579 | 17 | AZ119330  | AZ119330  | RPCI-23-4 | 19 | 1.0 | 618 | 17 | BM544417 | BM544417 | AGENCOURT |
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| 823 | 19 | 1.0 | 580 | 13 | BI900665  | BI900665  | ib93e04.x | 19 | 1.0 | 621 | 13 | BM505792 | BM505792 | ih35g12.x |
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| 827 | 19 | 1.0 | 582 | 10 | AV915747  | AV915747  | AV915747  | 19 | 1.0 | 623 | 10 | AV913396 | AV913396 | ih28a02.x |
| 828 | 19 | 1.0 | 583 | 13 | BI790864  | BI790864  | iq02b10.x | 19 | 1.0 | 623 | 10 | BB659663 | BB659663 | BB659663  |
| 829 | 19 | 1.0 | 583 | 13 | BQ031130  | BQ031130  | UI-1-CF0- | 19 | 1.0 | 623 | 14 | BM786690 | BM786690 | K-EST0065 |
| 830 | 19 | 1.0 | 584 | 13 | BI288790  | BI288790  | UI-R-DK0- | 19 | 1.0 | 625 | 14 | BM731090 | BM731090 | ih67d07.x |
| 831 | 19 | 1.0 | 584 | 13 | BI570812  | BI570812  | ih03g09.x | 19 | 1.0 | 625 | 14 | BM731090 | BM731090 | ih67d07.x |
| 832 | 19 | 1.0 | 585 | 9  | AI781708  | AI781708  | EST262587 | 19 | 1.0 | 626 | 10 | AV921174 | AV921174 | AV921174  |
| 833 | 19 | 1.0 | 586 | 9  | AL709001  | AL709001  | DKF2p686j | 19 | 1.0 | 627 | 10 | BE262911 | BE262911 | 601149360 |
| 834 | 19 | 1.0 | 587 | 9  | AA107309  | AA107309  | mp06d09.r | 19 | 1.0 | 627 | 12 | BG216941 | BG216941 | RST36626  |
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| 836 | 19 | 1.0 | 588 | 10 | AW269896  | AW269896  | xv37c01.x | 19 | 1.0 | 628 | 14 | BG928561 | BG928561 | ih89g11.x |
| 837 | 19 | 1.0 | 588 | 14 | BQ101464  | BQ101464  | ih95d05.x | 19 | 1.0 | 628 | 14 | BG928561 | BG928561 | ih89g11.x |
| 838 | 19 | 1.0 | 588 | 17 | BH650813  | BH650813  | BOHWT91TF | 19 | 1.0 | 629 | 13 | BI134777 | BI134777 | UI-M-BH3- |
| 839 | 19 | 1.0 | 589 | 13 | BI7965542 | BI7965542 | ig48c09.x | 19 | 1.0 | 629 | 13 | BM145650 | BM145650 | TCAAP1D73 |
| 840 | 19 | 1.0 | 589 | 14 | BQ086420  | BQ086420  | ih88e04.x | 19 | 1.0 | 629 | 13 | BM507864 | BM507864 | ih29e02.x |
| 841 | 19 | 1.0 | 590 | 12 | BQ270939  | BQ270939  | ib02f08.y | 19 | 1.0 | 630 | 13 | BI348621 | BI348621 | ih89h06.x |
| 842 | 19 | 1.0 | 590 | 14 | BQ129608  | BQ129608  | ih32a12.x | 19 | 1.0 | 630 | 13 | BM507864 | BM507864 | ih29e02.x |
| 843 | 19 | 1.0 | 591 | 9  | AI668780  | AI668780  | wc14b09.x | 19 | 1.0 | 631 | 10 | AV918695 | AV918695 | AV918695  |
| 844 | 19 | 1.0 | 591 | 13 | BM503143  | BM503143  | ih48b08.x | 19 | 1.0 | 631 | 12 | BI966372 | BI966372 | id51h08.x |
| 845 | 19 | 1.0 | 593 | 9  | AA911721  | AA911721  | ok88h03.s | 19 | 1.0 | 631 | 12 | BG051517 | BG051517 | FM1-57-E0 |
| 846 | 19 | 1.0 | 593 | 14 | BQ101436  | BQ101436  | ih95a04.x | 19 | 1.0 | 631 | 12 | BG051517 | BG051517 | FM1-57-E0 |
| 847 | 19 | 1.0 | 594 | 13 | BI440825  | BI440825  | ib96g09.x | 19 | 1.0 | 632 | 10 | AV918695 | AV918695 | AV918695  |
| 848 | 19 | 1.0 | 594 | 17 | AZ564927  | AZ564927  | 202PvC09  | 19 | 1.0 | 632 | 10 | BI966372 | BI966372 | id51h08.x |
| 849 | 19 | 1.0 | 596 | 14 | BQ086051  | BQ086051  | ih84f07.x | 19 | 1.0 | 632 | 10 | AV918695 | AV918695 | AV918695  |
| 850 | 19 | 1.0 | 596 | 14 | BQ128540  | BQ128540  | ih23e11.x | 19 | 1.0 | 633 | 13 | BI966372 | BI966372 | id51h08.x |
| 851 | 19 | 1.0 | 597 | 9  | AA518134  | AA518134  | v123e09.r | 19 | 1.0 | 633 | 13 | BG051517 | BG051517 | FM1-57-E0 |
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| 853 | 19 | 1.0 | 597 | 14 | BM825272  | BM825272  | K-EST0096 | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 854 | 19 | 1.0 | 597 | 14 | BQ085565  | BQ085565  | ih78a12.x | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 855 | 19 | 1.0 | 598 | 9  | AI802404  | AI802404  | t633a08.x | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 856 | 19 | 1.0 | 598 | 13 | BM570063  | BM570063  | ib80g09.x | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 857 | 19 | 1.0 | 599 | 13 | BI439552  | BI439552  | ib80c11.x | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 858 | 19 | 1.0 | 599 | 13 | BI714516  | BI714516  | ic03d08.x | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 859 | 19 | 1.0 | 600 | 9  | AA206786  | AA206786  | zg83b06.s | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 860 | 19 | 1.0 | 600 | 13 | BI439545  | BI439545  | ib80c11.x | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 861 | 19 | 1.0 | 600 | 13 | BM503135  | BM503135  | ih48a08.x | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 862 | 19 | 1.0 | 600 | 13 | BI439545  | BI439545  | ib80c11.x | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 863 | 19 | 1.0 | 600 | 14 | BQ128455  | BQ128455  | ih22a12.x | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 864 | 19 | 1.0 | 602 | 9  | AI587579  | AI587579  | tr52f05.x | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
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| 867 | 19 | 1.0 | 603 | 14 | BM999133  | BM999133  | UI-H-DI0- | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 868 | 19 | 1.0 | 604 | 9  | AJ432571  | AJ432571  | AJ432571  | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 869 | 19 | 1.0 | 605 | 14 | BM999198  | BM999198  | UI-H-DI0- | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 870 | 19 | 1.0 | 605 | 17 | AQ510739  | AQ510739  | ndxb0095N | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 871 | 19 | 1.0 | 606 | 17 | BM730774  | BM730774  | ih61e02.x | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
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| 873 | 19 | 1.0 | 607 | 13 | BI348578  | BI348578  | ib88b07.x | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 874 | 19 | 1.0 | 608 | 13 | BI714508  | BI714508  | ic03a12.x | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 875 | 19 | 1.0 | 608 | 13 | BI963307  | BI963307  | ih26b11.x | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 876 | 19 | 1.0 | 608 | 14 | BQ182367  | BQ182367  | UI-H-EU0- | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 877 | 19 | 1.0 | 609 | 12 | BG355721  | BG355721  | EMI18_F0  | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 878 | 19 | 1.0 | 609 | 13 | BI440665  | BI440665  | ib93a10.x | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 879 | 19 | 1.0 | 609 | 14 | BM688017  | BM688017  | UI-E-CL0- | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 880 | 19 | 1.0 | 611 | 10 | BE519842  | BE519842  | HV-CEB002 | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 881 | 19 | 1.0 | 611 | 13 | BM506568  | BM506568  | ih32g09.x | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |
| 882 | 19 | 1.0 | 612 | 10 | AV915753  | AV915753  | AV915753  | 19 | 1.0 | 634 | 14 | BM876969 | BM876969 | ih73g10.x |



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QY 1192 ACGAGGTGACTGACAGTCTGAGACAGGAGCACTTCTGATCGGGCTCACCTACAGA 1251
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QY 1252 CGCCCAAGGACTCCTTCGGCTGGGCCACAGGGAGCACCAGGCTTCACCGCTTTTGCT 1311
|||||
Db 541 CGCCCAAGGACTCCTTCGGCTGGGCCACAGGGAGCACCAGGCTTCACCGCTTTTGCT 600
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QY 1312 TTGGCGAGCCTGACACACACGGG 1334
|||||
Db 601 TTGGCGAGCCTGACACACACGGG 623
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RESULT 2
LOCUS AI307814 617 bp mRNA linear EST 08-APR-1999
DEFINITION db28d11.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2055669 3'
similar to TR:Q61830 Q61830 MANNOSE RECEPTOR, C TYPE 1 PRECURSOR ;
mRNA sequence.
ACCESSION AI307814 GI:4002418
VERSION AI307814.1
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 617)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
DNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 725 Std Error: 0.00
Seq primer: -400P from Gibco
High quality sequence stop: 451.
Location/Qualifiers
1. .617
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="NCI_CGAP_Kid12"
/tissue_type="2 pooled tumors (clear cell type)"
/lab_host="DH10h"
/note="Organ: kidney; Vector: pT73D-Pac (Pharmacia) with
a modified polylinker; Site_1: Not I; Site_2: Eco RI;
Plasmid DNA from the normalized library NCI_CGAP_Kid5 was
prepared, and ss circles were made in vitro. Following HAP
hybridization, this DNA was used as tracer in a subtractive
hybridization reaction. The driver was PCR-amplified cDNAs
from a pool of 5,000 clones made from the same library
(cloneIDs 1323912-1325831, 1471368-1472903 and
1492104-1493255). Subtraction, by Bento Soares and M.
Fatima Bonaldo."
BASE COUNT 118 a 182 c 179 g 138 t
ORIGIN
Query Match 27.3%; Score 512; DB 9; Length 617;
Best Local Similarity 100.0%; Pred. No. 1.8e-161;
Matches 512; Conservative. 0; Mismatches 0; Indels 0; Gaps 0;

QY 1359 GGGTTTGGCACTCGGTGGAGCTGCAGCTTCAGCTGCTTCACTGGAACGACGCGC 1418
|||||
Db 512 GGGTTTGGCACTCGGTGGAGCTGCAGCTTCAGCTGCTTCACTGGAACGACGCGC 453
|||||
```

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QY 1419 TGCAAAACCCGAAACCGTTACATCTGCCAGTTTGCCAGGAGCACATCTCCCGTGGGC 1478
|||||
Db 452 TGCAAAACCCGAAACCGTTACATCTGCCAGTTTGCCAGGAGCACATCTCCCGTGGGC 393
|||||

QY 1479 CCAGGGTCTGTAGGCTGACACATGGCTCCCTGGCTCCCTGGGAGCACCGGCTCTGC 1538
|||||
Db 392 CCAGGGTCTGTAGGCTGACACATGGCTCCCTGGCTCCCTGGGAGCACCGGCTCTGC 333
|||||

QY 1539 TTACCTGTCTGCCACCTGTCTGGAAACAGGGCCAGGTAAAGACACATGCTCATGTCTC 1598
|||||
Db 332 TTACCTGTCTGCCACCTGTCTGGAAACAGGGCCAGGTAAAGACACATGCTCATGTCTC 273
|||||

QY 1599 AAAGAGTCTCAGACCTTCACAATGCCAAGTGGGAGAGAGAGAGAGAGAGAGAGAG 1658
|||||
Db 272 AAAGAGTCTCAGACCTTCACAATGCCAAGTGGGAGAGAGAGAGAGAGAGAGAGAGAG 213
|||||

QY 1659 TGAGGGCCAGGAGTCACTGTTAGAAAGAGCTGGGGCCCTTCGCCCTGCTTTGATTGGA 1718
|||||
Db 212 TGAGGGCCAGGAGTCACTGTTAGAAAGAGCTGGGGCCCTTCGCCCTGCTTTGATTGGA 153
|||||

QY 1719 AGATGGGCTTCAATTAGATGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGT 1778
|||||
Db 152 AGATGGGCTTCAATTAGATGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGT 93
|||||

QY 1779 CTCTTCCACCTGCCAGACCTGTGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1838
|||||
Db 92 CTCTTCCACCTGCCAGACCTGTGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 33
|||||

QY 1839 GGGGTATTAAATTATGAATCAGCTGAAAAA 1870
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Db 32 GGGGTATTAAATTATGAATCAGCTGAAAAA 1
|||||

RESULT 3
LOCUS BM547887 1076 bp mRNA linear EST 20-FEB-2002
DEFINITION AGENCOURT_531767 NIH_MGC_124 Homo sapiens cDNA clone IMAGE:5732633
5', mRNA sequence.
ACCESSION BM547887
VERSION BM547887.1 GI:18782034
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1076)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Invitrogen
cDNA Library Preparation: Life Technologies, Inc.
DNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LIAM12735 row: a column: 18
High quality sequence start: 9
High quality sequence stop: 677.
Location/Qualifiers
1. .1076
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="NIH_MGC_124"
/tissue_type="hippocampus"
/lab_host="DH10h"
/note="Organ: brain; Vector: pCMV-SPORT6; Site_1: EcoRV
(destroyed); Site_2: NotI; RNA source male hippocampus,
age 27. Library is oligo-dT primed and directionally
cloned (EcoRV site is destroyed upon cloning). Average
```

insert size 1.4 kb, insert size range 0.9-4 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 012."

|            |       |       |       |       |          |
|------------|-------|-------|-------|-------|----------|
| BASE COUNT | 192 a | 358 c | 338 g | 182 t | 6 others |
|------------|-------|-------|-------|-------|----------|

Query Match 27.3%; Score 512; DB 13; Length 1076;  
Best Local Similarity 99.5%; Pred. No. 1.3e-161;  
Matches 662; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

|    |     |   |     |
|----|-----|---|-----|
| Qy | 16  | GCCCAGCCTGACTCTCGGAGATTGTGAATAGCTCCATCCAGCCTGAGAAACAAGCCGGT | 75  |
|    |     |   |     |
|    |     |   |     |
|    |     |   |     |
|    |     |   |     |
| Db | 149 | GCCCAGCCTGACTCTCGGAGATTGTGAATAGCTCCATCCAGCCTGAGAAACAAGCCGGT | 208 |

| Qy | 76   | 209  | Db   |
|----|--|--|--|
|    | GGCTGAGCCAGGCTGTGCACGGAGCACCTGACGGGCCCAACAGACCCATGCTGCATCCAG | GGCTGAGCCAGGCTGTGCACGGAGGCCCTGACGGGCCCAACAGACCCATGCTGCATCCAG | GGCTGAGCCAGGCTGTGCACGGAGGCCCTGACGGGCCCAACAGACCCATGCTGCATCCAG |
|    | 135  | 268  |  |

|    |     |   |     |
|----|-----|---|-----|
| Qy | 136 | AGACTTCCTCGCCGGGGGATCCTTGCTGTGCTCTGTGGCCCTCCTTGTGGCACCACT | 195 |
|    |     |   |     |
|    |     |   |     |
|    |     |   |     |
|    |     |   |     |
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|    |     |   |     |
|    |     |   |     |
| Dδ | 269 | AGACTTCCTCGCCGGGGGATCCTTGCTGTGCTCTGTGGCCCTCCTTGTGGCACCACT | 328 |

|    |     |  |     |
|----|-----|--|-----|
| Qy | 196 | GGGCAGAGTGTGGCCACCCACCGCTGCAGGAGCGTCCGATGGCCGGAGCCCTGAACA  | 255 |
|    |     |  |     |
| Db | 329 | GGGCAGAGGTGTGGCCACCCACCGCTGCAGGAGCGTCCGATGGCCGGAGCCCTGAACA | 388 |

|                      |     |   |     |
|----------------------|-----|---|-----|
| <b>Qy</b>            | 256 | GGAAGGAGAGTTCTTGCTCCTCTCCCTGCACAAACGGCTTGGCGAGCTGGGTTCAGGCC | 315 |
|                      |     |   |     |
|                      |     |   |     |
| <b>D<sub>b</sub></b> | 389 | GGAAGGAGAGTTCTTGCTCCTCTCCCTGCACAAACGGCTTGGCGAGCTGGGTTCAGGCC | 448 |

|    |  |  |
|----|--|--|
|    | CTCGGGCTGCATGCGGAGCCTGGACTGGAGTGACAGCTGGCCCAACTGGCTCAAGCCA | 375  |
| QY | 316  |  |
| Dd | 449  | CTCGGGCTGCATGCGGAGCCTGGACTGGAGTGACAGCTGGCCCAACTGGCTCAAGCCA |
|    |  | 508  |

|    |     |   |     |
|----|-----|---|-----|
| Qy | 376 | GGGAGCCCTCTGTGGAATCCACCCGAGCCTGGCATCCGGCCTGTGGCGCACCTGC | 435 |
|    |     |   |     |
|    |     |   |     |
|    |     |   |     |
| Dd | 509 | GGGAGSCCTCTGTGGAATCCACCCGAGCCTGGCGCTGGCGCACCTGC         | 568 |

|    |     |   |     |
|----|-----|---|-----|
| QY | 436 | AAGTGGCGCTGGGAACATGCAGCTGCTCCCGCGGGCTTGCGCGTCTTGTGAAGTGGTCA | 495 |
|    |     |   |     |
|    |     |   |     |
|    |     |   |     |
| Db | 569 | AAGTGGCGCTGGGAACATGCAGCTGCTCCCGCGGGCTTGCGCGTCTTGTGAAGTGGTCA | 628 |

|    |     |  |     |
|----|-----|--|-----|
| QY | 496 | GCCTATGGTTTCACAGAGGGCAGCGGTACAGCCACGCCGCGCAGGAGAGTGTGCTCGCAACG | 555 |
|    |     |  |     |
|    |     |  |     |
|    |     |  |     |
| Db | 629 | GCCTGTGGTTTTCAGAGGGGCGGTCAGAGCCACGCCGCGCAGGAGAGTGTGCTCGCAACG   | 688 |
|    |     |  |     |
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|    |     |  |     |

|    |     |   |     |
|----|-----|---|-----|
| QY | 556 | CCACCTGCACCCACTACACGACGCTCGTGTGGGCCACTCAAGCCAGCTGGGCTGTGGGC | 615 |
|    |     |   |     |
|    |     |   |     |
| db | 689 | CCACCTGCACCCACTACACGACGCTCGTGTGGGCCACTCAAGCCAGCTGGGCTGTGGGC | 748 |
|    |     |   |     |
|    |     |   |     |

|    |     |  |     |
|----|-----|--|-----|
| Qy | 615 | GGCACCTGTGCTGCGAGCCAGACAGCGATAGAAAGCCTTTGTCTGTGCTACTCCCCCG | 675 |
|    |     | GGACCTGTGCTGCGAGCCAGACAGCGATAGAAAGCCTTTGTCTGTGCTACTCCCCCG  |     |
| Db | 749 | GGCACCTGTGCTGCGAGCCAGACAGCGATAGAAAGCCTTTGTCTGTGCTACTCCCCCG | 808 |

| Qy | 676 | GAGGC | 680 |
|----|-----|-------|-----|
|    |     |       |     |
| Db | 809 | GAGGC | 813 |

RESULT 4  
BQ720124

|            |                  |                        |              |
|------------|------------------|------------------------|--------------|
| AG024222   | 5/8 bp           | mRNA                   | EST          |
| DEFINITION | AGENCOURT_823252 | Lupski-synthetic-trunk | linear       |
|            | IMAGE:16191575   | 5', mRNA sequence.     | Homo sapiens |
| ACCESSION  | BQ720124         |                        | CDNA clone   |
| VERSION    |                  |                        |              |

KEYWORDS  
SOURCE  
ORGANISM  
EST.  
20124.1  
GI:21839021  
human.  
Homo sapiens

| AUTHORS  | TITLE | JOURNAL | COMMENT |
|--|-------|---------|---------|
| W. J. G. B. van den Broek, J. A. M. M. van den Broek, J. A. M. M. van den Broek, J. A. M. M. van den Broek | ...   | ...     | ...     |

NIH-MGC <http://mgc.nci.nih.gov/>.  
National Institutes of Health, Mammalian Gene Collection (MGC)  
Unpublished (1999)  
Contact: Robert Strausberg, Ph.D.  
Email: [cgapbs-r@mail.nih.gov](mailto:cgapbs-r@mail.nih.gov)  
Tissue Procurement: Dr. James R. Lupski  
cDNA Library Preparation: Life Technologies, Inc.  
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: Agencourt Bioscience Corporation  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:

FEATURES  
SOURCE

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Location/Qualifiers
1. 578
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:6191575"
/clone_lib="lupski_sympathetic_trunk"
/sex="male"
/tissue_type="sympathetic trunk"
/dev_stage="adult, 16 yr"
/lab_host="DH10B"
/note="vector: pcwv-SPORT6 (Life Techn
Not1; Site 2: SalI; CDNA made by oligo
Directionally cloned using the follow
5'-TCGACCCACGGCTCG-3' and
5'-GACTGATCTAGATCGAGCGCCCT(15)
1 kb for average insert length 1.9 kb
library, non-amplified. Library const
Technologies and donated by J. Lupski
College of Medicine); available through
TechBioLocat.
```

| BASE COUNT | 150 a         | 166 c | 161 g | 100 t | 1 others |
|------------|---------------|-------|-------|-------|----------|
| ORIGIN     | technologies. |       |       |       |          |

|                           |       |                     |        |             |
|---------------------------|-------|---------------------|--------|-------------|
| Query Match               | 24.6% | Score 451;          | DB 14; | Length 578; |
| Best Local Similarity     | 99.8% | Pred. No. 2.1e-144; |        |             |
| Matches 511; Conservative | 0;    | Mismatches 1;       | Indels |             |

QY 1359 GGGTTTGGCAACTGCGTGGAGCTGCAGGCTTCAGCTGCCTTCAACTGGACGACCAGCG 1418  
|||||  
Db 19 GGGTTTGGCAACTGCGTGGAGCTGCAGGCTTCAGCTGCCTTCAACTGGACGACCAGCG 78

|      |  |      |
|------|--|------|
| 1539 | TTACCTGCTGCCCCACCTGCTCTGGACAAGGGCCAGGTTAAGACCACATGCCTCATGTCC | 1598 |
| QY   |  |      |
| 199  | TTACCTGCTGCCCCACCTGCTCTGGACAAGGGCCAGGTTAAGACCACATGCCTCATGTCC | 258  |
| Db   |  |      |

|      |     |  |      |
|------|-----|--|------|
| 1659 | QY  | TGAGGGCCAGGGAGTGCAGTGTAGAGAAGCTGGGGCCCTTCGCCTGCTTTTGATGGGA | 1718 |
|      |     |  |      |
| 319  | Ddb | TGAGGGCCAGGGAGTGCAGTGTAGAGAAGCTGGGGCCCTTCGCCTGCTTTTGATGGGA | 378  |

|      |   |      |
|------|---|------|
| 1719 | AGATGGGCTTCAATTAGATGGCGAAGGAGAGACACCGCCAGTGGTCCAAAAAGCGTGCT | 1778 |
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| 1739 | AGATGGGCTTCAATTAGATGGCGAAGGAGAGACACCGCCAGTGGTCCAAAAAGCGTGCT | 438  |
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| 1798 |   |      |
| 1799 |   |      |
| 1800 |   |      |

1779 CTCTTCCACCTGGCCCGACACCCTGTGGGGACGGAGCTTCCTGTGCATGAACCCAC 1838  
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439 CTCTTCCACCTGGCCCGACACCCTGTGGGGACGGAGCTTCCTGTGCATGAACCCAC 498









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Db 200 CAGGAGTGTAGTGTAGGAAGAGCTGGGGCCCTTCGCTGCTTTTGTATGGAGATGGG 141
QY 1726 CTTCAATTAGATGGCGAAGAGAGACACCGCAGTGGTCCAAAGAGCTGCTCTCTTC 1785
Db 140 CTTCAATTAGATGGCGAAGAGAGAGACACCGCAGTGGTCCAAAGAGCTGCTCTCTTC 81
QY 1786 ACCTGGCCAGAGACCTGTGGGGCAGCGAGCTTCCCTGTGGCATGAACCCAC 1838
Db 80 ACCTGGCCAGAGACCTGTGGGGCAGCGAGCTTCCCTGTGGCATGAACCCAC 28

RESULT 10
AW001740/c
LOCUS
DEFINITION
  ws04c06.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2496202 3',
  mRNA sequence.
ACCESSION
  AW001740
VERSION
  AW001740.1 GI:5848656
KEYWORDS
  EST.
SOURCE
  human.
ORGANISM
  Homo sapiens
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
  NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
  National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
  Tumor Gene Index
  Unpublished (1997)
  Contact: Robert Strausberg, Ph.D.
  Email: cgapbs-r@mail.nih.gov
  Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
  Emmert-Buck, M.D., Ph.D.
  CDNA Library Preparation: M. Bento Soares, Ph.D.
  DNA Sequencing by: Washington University Genome Sequencing Center
  Clone distribution: NCI-CGAP clone distribution information can be
  found through the I.M.A.G.E. Consortium/LLNL at:
  www-bio.llnl.gov/bbrp/image/image.html
  Insert Length: 846 Std Error: 0.00
  Seq primer: -40UP from Gibco
  High quality sequence stop: 477.
FEATURES
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      /clone="IMAGE:2496202"
      /clone_lib="NCI_CGAP_Kid11"
      /lab_host="DH102"
      /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with
      a modified polylinker; Site_1: Not I; Site_2: Eco RI;
      Plasmid DNA from the normalized library NCI_CGAP_Kid3 was
      prepared, and ss circles were made in vitro. Following HAP
      purification, this DNA was used as tracer in a subtractive
      hybridization reaction. The driver was PCR-amplified cDNAs
      from a pool of 5,000 clones made from the same library
      (cloneIds 1322376-1323911, 1456007-1456775, and
      1500352-1502855). Subtraction by Bento Soares and M.
      Fatima Bonaudo."
      BASE COUNT 94 a 148 c 137 g 110 t 1 others
      ORIGIN
        Query Match 20.7%; Score 388; DB 10; Length 490;
        Best Local Similarity 99.6%; Pred. No. 6.le-120;
        Matches 488; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1376 GGAGCTGCGAGGCTTTCAGTCCCTTCAACTGGACACCGCTGCACAAACCCGAAACCG 1435
Db 490 GGAGCTGCGAGGCTTTCAGTCCCTTCAACTGGACACCGCTGCACAAACCCGAAACCG 431
QY 1436 TTACATCTGCCAGTTGCCAGAGACACATCTCCCGTGGGGCCCGAGGCTCTGAGGCT 1495
Db 430 TTACATCTGCCAGTTGCCAGAGACACATCTCCCGTGGGGCCCGAGGCTCTGAGGCT 371

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QY 1496 GACCACATGGCTCCCTCGCCCTGGAGCAGCGGCTTGCTTACCTGTGCCCCACC 1555
Db 370 GACCACATGGCTCCCTCGCCCTGGAGCAGCGGCTTGCTTACCTGTGCCCCACC 311
QY 1556 TGCTGTGAACAAGGGCCAGGTTAAGACACATGCTCATGTCCAAAGAGTCTCAGACCT 1615
Db 310 TGCTGTGAACAAGGGCCAGGTTAAGATCATCATGCTCATGTCCAAAGAGTCTCAGACCT 251
QY 1616 TGCACATATCCAGAAAGTTGGGCAGAGAGAGCGAGGAGCGAGTGGGCCACGAGTGA 1675
Db 250 TGCACATATCCAGAAAGTTGGGCAGAGAGAGCGAGGAGCGAGTGGGCCACGAGTGA 191
QY 1676 GTGTTAAGAAAGCTGGGGCCCTTCGCTGCTTTTGAATGGGAAGATGGGCTTCAATTAG 1735
Db 190 GTGTTAAGAAAGCTGGGGCCCTTCGCTGCTTTTGAATGGGAAGATGGGCTTCAATTAG 131
QY 1736 ATGGCGAAGGAGAGACACCGCCAGTGGTCCAAAAGGCTGCTCTTCCACCTGGCCCA 1795
Db 130 ATGGCGAAGGAGAGACACCGCCAGTGGTCCAAAAGGCTGCTCTTCCACCTGGCCCA 71
QY 1796 GACCTGTGGGCGAGCGAGCTTCCCTGTGGCATGAACCCACGGGCTATTAATATGA 1855
Db 70 GACCTGTGGGCGAGCGAGCTTCCCTGTGGCATGAACCCACGGGCTATTAATATGA 11
QY 1856 ATCAGCTGAA 1865
Db 10 ATCAGCTGAA 1

RESULT 11
AW451907/c
LOCUS
DEFINITION
  UI-H-BI3-alt-d-07-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone
  IMAGE:3068581 3', mRNA sequence.
ACCESSION
  AW451907
VERSION
  AW451907.1 GI:6992683
KEYWORDS
  EST.
SOURCE
  human.
ORGANISM
  Homo sapiens
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
  NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
  National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
  Tumor Gene Index
  Unpublished (1997)
  Contact: Robert Strausberg, Ph.D.
  Email: cgapbs-r@mail.nih.gov
  The sequence contained an oligo-dT track that was present in the
  oligonucleotide that was used to prime the synthesis of first
  strand cDNA and therefore this may represent a bonafide poly A
  tail. cDNA Library Preparation: M.B. Soares Lab Clone distribution:
  NCI-CGAP clone distribution information can be found through the
  I.M.A.G.E. Consortium/LLNL at:
  www-bio.llnl.gov/bbrp/image/image.html
  Seq primer: M13 Forward
  POLYA=Yes.
FEATURES
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    Location/Qualifiers
      /organism="Homo sapiens"
      /db_xref="taxon:9606"
      /clone="IMAGE:3068581"
      /clone_lib="NCI_CGAP_Sub5"
      /lab_host="DH10B (Life Technologies)"
      /note="Vector: pT7T3D-Pac (Pharmacia) with a modified
      polylinker; Site_1: Not I; Site_2: Eco RI; NCI_CGAP_Sub5
      is a subtracted library derived from NCI_CGAP_Sub4. The
      NCI_CGAP_Sub5 library had 3 million recombinants. A
      single-stranded DNA preparation of NCI_CGAP_Sub4 was used
      as a tracer in a subtractive hybridization with a driver
      comprising: the IMAGE pool (NCI_CGAP_Kid3 pool 1 LLAM
      3334-3337, 3682-3683, 3798-3803 (IMAGE CloneIds
      1322376-1323911, 1456008-1456775, 1500352-1502855));

```

NCI\_CGAP\_Kid5 pool 1 LLAM 3338-3342, 3722-3725, 3776-3778  
(IMAGE Clonoids 132912-1325831, 1471368-1472903,  
1492104-1493255); NCI\_CGAP\_Lu5 pool 1 LLAM 3575-3582,  
3851-3854 (IMAGE Clonoids 1414920-1417991, 1520904-1522439  
); NCI\_CGAP\_GC4 pool 1 LLAM 3164-3167, 3716-3720  
3733-3735 (IMAGE Clonoids 1257096-1238631, 1469064-1470983,  
1475592-1476743); NCI\_CGAP\_Pr22 pool 1 LLAM 2457-2459,  
2758-2759, 3062-3068 (IMAGE Clonoids 985608-986759  
, 1101192-1101959, 1217928-1220615); NCI\_CGAP\_Co10 pool 1  
LLAM 2644-2653, 2871-2872 (IMAGE Clonoids 1057416-1061255  
, 1144584-1145351).. (10% of the driver population), plus a  
pool of 3,840 arrayed clones from NCI\_CGAP\_Sub1 (IMAGE  
Clonoids 2708616-2710535) and NCI\_CGAP\_Sub2 (IMAGE  
Clonoids 2710536-2712455) (10% of the driver population  
) , plus a pool of 11,136 clones from NCI\_CGAP\_Sub3 (IMAGE  
Clonoids 2712456-2723591) (10% of the driver population),  
plus a pool of 5,472 clones from NCI\_CGAP\_Sub4 (IMAGE  
Clonoids 2723592-2728969) (70% of the driver population).  
Subtraction was performed as previously described [Bonaldo,  
Lennon & Soares (1996) : Normalization and Subtraction:  
Two Approaches To Facilitate Gene Discovery. Genome  
Research 6, 791-806.  
TAG\_LIB=NCI\_CGAP\_Kid3  
TAG\_TISSUE=kidney  
TAG\_SEQ=AATGC"

QY 1789 TGGCCAGACCCCTGTGGGGAGCGGAGCTTCCCTGTGGCATGAACCCAC 1838  
 Db 75 TGGCCAGACCCCTGTGGGGAGCGGAGCTTCCCTGTGGCATGAACCCAC 26

RESULT 13  
 AI627475/c  
 LOCUS  
 DEFINITION ty80a06.x1 NCI\_CGAP\_Kid11 Homo sapiens cDNA clone IMAGE:2285362 3', mRNA linear EST 07-MAR-2000  
 AI627475  
 VERSION NCI-CGAP  
 KEYWORDS AI627475.1 GI:4664275  
 SOURCE EST.  
 ORGANISM human.

REFERENCE  
 AUTHORS Homo sapiens  
 TITLE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.  
 JOURNAL NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 COMMENT National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index  
 Unpublished (1997)  
 Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-remail.nih.gov  
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.  
 CDNA Library Preparation: M. Bento Soares, Ph.D.  
 CDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/obrp/image/image.html  
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 Seq primer: -40RP from Gibco  
 High quality sequence stop: 464  
 POLYA=No.

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 /clone\_lib="NCI\_CGAP\_Kid11"  
 /lab\_host="DH10B"  
 /note="Organ: kidney; Vector: pTY73D-Pac (Pharmacia) with a modified polylinker; Site\_1: Not I; Site\_2: Eco RI; Plasmid DNA from the normalized library NCI\_CGAP\_Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneids 1322376-1323911, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo." 116 t  
 BASE COUNT 98 a 152 c 143 g 116 t  
 ORIGIN

Query Match 19.3%; Score 363; DB 9; Length 509;  
 Best Local Similarity 99.6%; Pred. No. 1.4e-111;  
 Matches 463; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1374 GTGGAGCTGCAGGCTTCAGCTCCCTTCACTGGAAGCAGGCTGCAAAACCCGAAAC 1433  
 Db 492 GTGGAGCTGCAGGCTTCAGCTCCCTTCACTGGAAGCAGGCTGCAAAACCCGAAAC 433

QY 1434 CGTTACATCTGCCAGTTTGCCAGGAGCACATCTCCCGTGGGGCCAGGCTCTGAGGC 1493  
 Db 432 CGTTACATCTGCCAGTTTGCCAGGAGCACATCTCCCGTGGGGCCAGGCTCTGAGGC 373

QY 1494 CTGACCACATGGCTCCCTCGCCCTGGCGGAGCACCGGCTCTGCTTACCTGTCTGCCCA 1553  
 Db 372 CTGACCACATGGCTCCCTCGCCCTGGCGGAGCACCGGCTCTGCTTACCTGTCTGCCCA 313

QY 1554 CTTGTCTGGAACAAGGGCCAGGTTAAGACCACTGCCTCATGTCCAAAGAGTCTCAGAC 1613  
 Db 312 CTTGTCTGGAACAAGGGCCAGGTTAAGACCACTGCCTCATGTCCAAAGAGTCTCAGAC 253

QY 1614 CTTGCACAATGCCAGAAGTTGGGCAGAGAGAGGAGGAGGAGTGGAGGAGT 1673  
 Db 252 CTTGCACAATGCCAGAAGTTGGGCAGAGAGAGGAGGAGGAGTGGAGGAGT 193

QY 1674 GAGTGTAGAAAGCTGGGGCCCTTCGCCTCTTTTGAATGGGAAGATGGGCTTCAAT 1733  
 Db 192 GAGTGTAGAAAGCTGGGGCTCTTCGCCTCTTTTGAATGGGAAGATGGGCTTCAAT 133

QY 1734 AGATGGCGAAGGAGAGACACCGCCAGTGGTCCAAAAAGGTGCTCTTCCACCTGGCC 1793  
 Db 132 AGATGGCGAAGGAGAGACACCGCCAGTGGTCCAAAAAGGTGCTCTTCCACCTGGCC 73

QY 1794 CAGACCTGTGGGGCAGCGGAGCTTCCCTGTGGCATGAACCCAC 1838  
 Db 72 CAGACCTGTGGGGCAGCGGAGCTTCCCTGTGGCATGAACCCAC 28

RESULT 14  
 AI792411  
 LOCUS  
 DEFINITION an34b09.y5 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:1700537 5', similar to TR:043692 043692 25 KDA TRYPSIN INHIBITOR. ;, mRNA sequence.

ACCESSION AI792411  
 VERSION AI792411.1 GI:5340127  
 KEYWORDS EST.  
 SOURCE human.

ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.  
 REFERENCE  
 AUTHORS NCI/NIH-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 TITLE National Cancer Institute / National Institute of Dental Research, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index  
 JOURNAL Unpublished (1997)  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-remail.nih.gov  
 This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.  
 This read is a RESEQUENCE of a previously sequenced human clone.  
 Original clone citation: see original entry for original citation information  
 This 5' resequenced clone has no previous 5' data to verify this new read against  
 Seq primer: -40RP from Gibco  
 High quality sequence stop: 429.  
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 /lab\_host="DH10B"  
 /note="Vector: pSPORT1; Site\_1: SalI; Site\_2: NotI; RNA was prepared from a pool of 6 anonymous Wilms' tumor RNAs. RNA was prepared by acid-phenol, followed by one round of oligo dr selection. cDNA library preparation was with the BRL/Life Tech. Superscript Plasmid system. An oligo-dr NotI primer for first strand synthesis generated gcggcgccc(t)n at the 3' end of the clones. A 5' SalI adaptor was used with sequence 5'-gtcgaccacgcgcgcg-3'. Resulting cDNAs were size selected (average size 2 kb), NotI digested, and ligated into NotI/SalI-cut pSPORT1. Library was constructed by Dr. Manfred Gessler." 80 a 163 c 143 g 77 t

BASE COUNT 80 a 163 c 143 g 77 t  
 ORIGIN

Query Match 18.6%; Score 348; DB 9; Length 463;

Mon Dec 30 09:16:11 2002

purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (clones 1322376-132311, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo.

BASE COUNT 94 a 147 c 142 g 111 t  
ORIGIN

Query Match 17.4%; Score 326; DB 9; Length 494;  
Best Local Similarity 99.5%; Pred. No. 3.3e-99;  
Matches 426; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1411 ACAGGCTGCAAAACCCGAAACCGTTACATCTGCCAGTTTGGCCAGGACACATCTCCC 1470  
DB 453 ACCAGGCTGCAAAACCCGAAACCGTTACATCTGCCAGTTTGGCCAGGACACATCTCCC 394  
QY 1471 GFTGGGCCCCAGGCTCTGAGGCTTGACACATGGGTCTCCCTGCGCTGGGAGCACC 1530  
DB 393 GFTGGGCCCCAGGCTCTGAGGCTTGACACATGGGTCTCCCTGCGCTGGGAGCACC 334  
QY 1531 GGCTCTGCTTACCTGTGCTGCCACCTCTCTGGAACAGGCGCAGGTTAAGACACACATGCC 1590  
DB 333 GGCTCTGCTTACCTGTGCTGCCACCTCTCTGGAACAGGCGCAGGTTAAGACACATGCC 274  
QY 1591 TCATGTCCTCAAGAGGTCTCAGACCTTGCACAATGCCAGAGTTGGGAGAGAGAGGAGG 1650  
DB 273 TCATGTCCTCAAGAGGTCTCAGACCTTGCACAATGCCAGAGTTGGGAGAGAGAGGAGG 214  
QY 1651 GAGGCCAGTGGGCGGAGGAGTGTAGAGAGAGTGGGCGCTTCCCTGCTGCTTTT 1710  
DB 213 GAGGCCAGTGGGCGGAGGAGTGTAGAGAGAGTGGGCGCTTCCCTGCTGCTTTT 154  
QY 1711 GATTGGGAAGATGGCTTCAATTAGATGGCGAAGAGAGAGACCGCCAGTGGTCCAAA 1770  
DB 153 GATTGGGAAGATGGCTTCAATTAGATGGCGAAGAGAGAGACCGCCAGTGGTCCAAA 94  
QY 1771 AGGCTGCTCTCTTCCACCTGGCCAGGAGTGTAGAGAGAGTGGGCGCTTCCCTGCTGCTTT 1830  
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DB 33 AACCCAC 26

RESULT 16  
BM708158  
LOCUS  
DEFINITION  
ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM  
REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
MEDLINE  
COMMENT

BM708158 405 bp mRNA linear EST 28-FEB-2002  
UI-E-C11-aft-b-08-0-UI.r1 UI-E-C11 Homo sapiens cDNA clone  
UI-E-C11-aft-b-08-0-UI 5', mRNA sequence.  
BM708158  
BM708158.1 GI:19021416  
EST.  
human.  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 405)  
Bonaldo, M.F., Lennon, G. and Soares, M.B.  
Normalization and subtraction: two approaches to facilitate gene  
discovery  
Genome Res. 6 (9), 791-806 (1996)  
97044477  
Contact: Soares, MB  
Program for Rat Gene Discovery and Mapping  
University of Iowa  
451 Eckstein Medical Research Building Iowa City, IA 52242, USA  
Tel: 319 335 8250  
Fax: 319 335 9565  
Email: msoares@blue.weeg.uiowa.edu  
Tissue Procurement: Dr. Gregg Hageman  
cDNA Library preparation: Dr. M. Bento Soares, University of Iowa

Best Local Similarity 99.7%; Pred. No. 1.5e-106;  
Matches 398; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 14 CAGCCAGCTGACTCTGAGAGTTGTGAATAGCTTCCATCCAGCTGAGAAACAGCCGG 73  
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QY 74 GTGGCTGAGCCAGGCTGTGCACGAGACCTGACGCGGCCAACACACCCATGCTCATCC 133  
DB 78 GTGGCTGAGCCAGGCTGTGCACGAGAGCTGACGCGGCCAACACACCCATGCTCATCC 137  
QY 134 AGAGACTCTCCCTGCGCGGCGCATCTCTGCTGTGCTCTGCGCCCTCTTGGCACCAC 193  
DB 138 AGAGACTCTCCCTGCGCGGCGCATCTCTGCTGTGCTCTGCGCCCTCTTGGCACCAC 197  
QY 194 CTGGGACAGAGTGTGGCCACCCAGCTGCAGGAGGAGGCTCGATGGCGCGGAGCCCTGA 253  
DB 198 CTGGGACAGAGTGTGGCCACCCAGCTGCAGGAGGAGGCTCGATGGCGCGGAGCCCTGA 257  
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DB 258 CAGGAAGGAGAGTTCTTCTCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 317  
QY 314 CCTCTGGGCTGACATCGGAGGCTGGAGTGGAGTGGAGTGGAGTGGAGTGGAGTGGAGT 373  
DB 318 CCTCTGGGCTGACATCGGAGGCTGGAGTGGAGTGGAGTGGAGTGGAGTGGAGTGGAGT 377  
QY 374 CAGGCGAGCGCTCTGTGGAAATCCCAACCCCGAGCCCTGGC 412  
DB 378 CAGGCGAGCGCTCTGTGGAAATCCCAACCCCGAGCCCTGGC 416

RESULT 15  
AI433291/c  
LOCUS  
DEFINITION  
ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM  
REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
COMMENT

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t186501.x1 NCI\_CGAP\_Kid11 Homo sapiens cDNA clone IMAGE:2138857 3',  
mRNA sequence.  
AI433291  
AI433291.1 GI:4288147  
EST.  
human.  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 494)  
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
Unpublished (1997)  
Contact: Robert Strausberg, Ph.D.  
Email: cgapsb-r@mail.nih.gov  
Emmert-Buck, M.D., Ph.D.  
cDNA Library Preparation: M. Bento Soares, Ph.D.  
cDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
[www.bio.llnl.gov/bbrp/image/image.html](http://www.bio.llnl.gov/bbrp/image/image.html)  
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High quality sequence stop: 473.  
Location/Qualifiers  
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/lab\_host="DH10B"  
/note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with  
a modified polylinker; Site: 1; Not 1; Site 2: Eco RI;  
plasmid DNA from the normalized library NCI\_CGAP\_Kid3 was  
prepared, and ss circles were made in vitro. Following HAP

FEATURES  
source



cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa  
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa  
Clone Distribution: Researchers may obtain clones from Research  
Genetics ([www.resgen.com](http://www.resgen.com)).  
Seq primer: M13 Reverse.

| FEATURES                           | SOURCE                             |
|------------------------------------|------------------------------------|
| 1. <u>Age</u>                      | 1. <u>Age</u>                      |
| 2. <u>Gender</u>                   | 2. <u>Gender</u>                   |
| 3. <u>Marital Status</u>           | 3. <u>Marital Status</u>           |
| 4. <u>Education</u>                | 4. <u>Education</u>                |
| 5. <u>Income</u>                   | 5. <u>Income</u>                   |
| 6. <u>Occupation</u>               | 6. <u>Occupation</u>               |
| 7. <u>Religion</u>                 | 7. <u>Religion</u>                 |
| 8. <u>Political Affiliation</u>    | 8. <u>Political Affiliation</u>    |
| 9. <u>Health Status</u>            | 9. <u>Health Status</u>            |
| 10. <u>Travel History</u>          | 10. <u>Travel History</u>          |
| 11. <u>Employment Status</u>       | 11. <u>Employment Status</u>       |
| 12. <u>Family Size</u>             | 12. <u>Family Size</u>             |
| 13. <u>Home Ownership</u>          | 13. <u>Home Ownership</u>          |
| 14. <u>Vehicle Ownership</u>       | 14. <u>Vehicle Ownership</u>       |
| 15. <u>Insurance Status</u>        | 15. <u>Insurance Status</u>        |
| 16. <u>Substance Use</u>           | 16. <u>Substance Use</u>           |
| 17. <u>Mental Health</u>           | 17. <u>Mental Health</u>           |
| 18. <u>Chronic Conditions</u>      | 18. <u>Chronic Conditions</u>      |
| 19. <u>Acute Conditions</u>        | 19. <u>Acute Conditions</u>        |
| 20. <u>Medication Use</u>          | 20. <u>Medication Use</u>          |
| 21. <u>Healthcare Utilization</u>  | 21. <u>Healthcare Utilization</u>  |
| 22. <u>Healthcare Costs</u>        | 22. <u>Healthcare Costs</u>        |
| 23. <u>Healthcare Access</u>       | 23. <u>Healthcare Access</u>       |
| 24. <u>Healthcare Satisfaction</u> | 24. <u>Healthcare Satisfaction</u> |
| 25. <u>Healthcare Quality</u>      | 25. <u>Healthcare Quality</u>      |
| 26. <u>Healthcare Equity</u>       | 26. <u>Healthcare Equity</u>       |
| 27. <u>Healthcare Innovation</u>   | 27. <u>Healthcare Innovation</u>   |
| 28. <u>Healthcare Research</u>     | 28. <u>Healthcare Research</u>     |
| 29. <u>Healthcare Policy</u>       | 29. <u>Healthcare Policy</u>       |
| 30. <u>Healthcare Regulation</u>   | 30. <u>Healthcare Regulation</u>   |
| 31. <u>Healthcare Ethics</u>       | 31. <u>Healthcare Ethics</u>       |
| 32. <u>Healthcare Law</u>          | 32. <u>Healthcare Law</u>          |
| 33. <u>Healthcare Economics</u>    | 33. <u>Healthcare Economics</u>    |
| 34. <u>Healthcare Sociology</u>    | 34. <u>Healthcare Sociology</u>    |
| 35. <u>Healthcare History</u>      | 35. <u>Healthcare History</u>      |
| 36. <u>Healthcare Future</u>       | 36. <u>Healthcare Future</u>       |
| 37. <u>Healthcare Global</u>       | 37. <u>Healthcare Global</u>       |
| 38. <u>Healthcare Local</u>        | 38. <u>Healthcare Local</u>        |
| 39. <u>Healthcare Community</u>    | 39. <u>Healthcare Community</u>    |
| 40. <u>Healthcare Individual</u>   | 40. <u>Healthcare Individual</u>   |
| 41. <u>Healthcare System</u>       | 41. <u>Healthcare System</u>       |
| 42. <u>Healthcare Industry</u>     | 42. <u>Healthcare Industry</u>     |
| 43. <u>Healthcare Government</u>   | 43. <u>Healthcare Government</u>   |
| 44. <u>Healthcare Academia</u>     | 44. <u>Healthcare Academia</u>     |
| 45. <u>Healthcare Media</u>        | 45. <u>Healthcare Media</u>        |
| 46. <u>Healthcare Technology</u>   | 46. <u>Healthcare Technology</u>   |
| 47. <u>Healthcare Environment</u>  | 47. <u>Healthcare Environment</u>  |
| 48. <u>Healthcare Culture</u>      | 48. <u>Healthcare Culture</u>      |
| 49. <u>Healthcare Society</u>      | 49. <u>Healthcare Society</u>      |
| 50. <u>Healthcare World</u>        | 50. <u>Healthcare World</u>        |

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1. .405
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/clone.lib="UI-E-C11"
/tissue_type="RPE and Choroid"
/dev_stage="adult"
/lab_host="DH10B (Life Technologies) (T1 phage resistant)"
/note="Organ: eye; Vector: p7T3-Pac (Pharmacia) with a
modified polylinker; Site.1: EcoR I; Site.2: Not I;
UI-E-C11 is a normalized cDNA library containing the
following tissue(s): RPE and Choroid. The library was
constructed according to Bonaldo, Lennon and Soares'
Genome Research, 6:791-806, 1996. First strand cDNA'
synthesis was primed with an oligo-dT primer containing a
Not I site. Double stranded cDNA was ligated to an EcoR I
adaptor, digested with Not I, and cloned directionally
into p7T3-Pac vector. The oligonucleotide used to prime
the synthesis of first-strand cDNA contains a library tag
sequence that is located between the Not I site and the
(drr)18 tail. The sequence tag for this library is ACCrA.
This library was created for the program, Gene Discovery
in the Visual System, supported by National Eye Institute
(NRI)."

```

|            |         |       |       |      |
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| BASE COUNT | 92 a    | 111 c | 127 g | 75 t |
| ORIGIN     | (NEI)." |       |       |      |

|                       |       |            |        |             |
|-----------------------|-------|------------|--------|-------------|
| Query Match           | 17.1% | Score 320; | DB 14; | Length 405; |
| Best Local Similarity | 98.7% | Score 320; | DB 14; | Length 405; |

|    |      | 0;  | Mismatches | 1; | Indels | 0; | Gaps | 0; |
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| Dd | 1    | ACTGCGTGGAGCTGCAGGCTTCAGCTGCCCTCAACTGGAACGACGACGCTGCAAAACCC     | 60         |    |        |    |      |    |
| QY | 1429 | GAAACCGTTACATCTGCCAGTTTTGCCAGGACGACATCTCCCAGTGCGGCCGACGGTTCCT   | 1488       |    |        |    |      |    |
| Dd | 61   | GAAACCGTTACATCTGCCAGTTTTGCCAGGACGACATCTCCCAGTGCGGCCGACGGTTCCT   | 120        |    |        |    |      |    |
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| Dd | 121  | GAGGCGTAGCACATGGCTCCCTCGCCTGCGCTGGGAGCACCGGCTCTGTCTTACCTGTCT    | 180        |    |        |    |      |    |
| QY | 1549 | GCCCCACTGCTCGGAACAAGGCCAGGTTAAGACACATGCCCTCATGTCCTCAAAGAGGTCT   | 1608       |    |        |    |      |    |
| Dd | 181  | GCCCCACTGCTCGGAACAAGGCCAGGTTAAGATCATCATGCCCTCATGTCCTCAAAGAGGTCT | 240        |    |        |    |      |    |
| QY | 1609 | CAGACCTTGACAATGCCAGAAGTTGGGCAGAGAGAGCGAGGACCGCCAGTCAGGGCCAG     | 1668       |    |        |    |      |    |
| Dd | 241  | CAGACCTTGACAATGCCAGAAGTTGGGCAGAGAGAGCGAGGACCGCCAGTCAGGGCCAG     | 300        |    |        |    |      |    |
| QY | 1669 | GGAGTGAAGTGTAGAAGAGCTGGGGCCCTTCGCCTGCTTTGATTGGGAAGATGGGCTT      | 1728       |    |        |    |      |    |
| Dd | 301  | GGAGTGAAGTGTAGAAGAGCTGGGGCCCTTCGCCTGCTTTGATTGGGAAGATGGGCTT      | 360        |    |        |    |      |    |
| QY | 1729 | CAATTAGATGG   | 1739       |    |        |    |      |    |
| Dd | 361  | CAATTAGATGG   | 371        |    |        |    |      |    |

|            |   |
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| LOCUS      |   |
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| ACCESION   | F03040614F1 NIH_MGC_116 Homo sapiens CDNA clone IMAGE:5186219 5', |
| VERSION    | BI764403  |
| GI:        | 15755981  |
| BI764403.1 |   |

KEYWORDS  
SOURCE  
ORGANISM

|           |   |
|-----------|---|
| ORGANISM  | Homo sapiens  |
|           | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  |
| REFERENCE | 1. (bases 1 to 836)   |
| AUTHORS   | NIH-MGC <a href="http://mgc.nci.nih.gov/">http://mgc.nci.nih.gov/</a> ,<br>National Institutes of Health, Mammalian Gene Collection (MGC)   |
| TITLE     | Unpublished (1999)  |
| JOURNAL   | Contact: Robert Strausberg, Ph.D.<br>Email: <a href="mailto:cgaabs-remail.nih.gov">cgaabs-remail.nih.gov</a>  |
| COMMENT   | Tissue procurement: Life Technologies, Inc.<br>cDNA Library Preparation: Life Technologies, Inc.<br>cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)<br>DNA Sequencing by: Incyte Genomics, Inc.<br>Clone distribution by: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <a href="http://image.llnl.gov">http://image.llnl.gov</a><br>Plate: L1AM11465 row: b column: 12<br>High quality sequence stored: 761 |

**FEATURES**

**SOURCE**

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source
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/db_xref="taxon:9606"
/clone="IMAGE:5186219"
/clone_lib="NIH_MGC_116"
/lab_host="DH10B"
/note="Organ: pooled colon, kidney, stomach; Vector:
PCMV-SPORT6; Site 1: NotI; Site 2: EcoRV (destroyed); RNA
source anonymous pool of 3 colons, age 26 yo male, 49 yo
female, 71 yo male colon; 46 yo male kidney, and pool of
stomachs, 62 yo male and 70 yo female. Library is
oligo-dT primed and directionally cloned (EcoRV site is
destroyed upon cloning). Average insert size 1.4 kb,
insert size range 1-3 kb. Library is normalized and
enriched for full-length clones and was constructed by C.
Gruber (Invitrogen). Research Genetics tracking code
023. Note: this is a NIH_MGC Library."
157 a 255 c 271 g 153 t
BASE COUNT
ORIGIN

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| Query Match           | 16.4%;          | Score 308;   | DB 13;    | Length 836; |  |
| Best Local Similarity | 99.2%;          | Pred. No. 2.5e-93;   |           |             |  |
| Matches 628;          | Conservative 0; | Mismatches 4;  | Indels 1; | Gaps 1;     |  |
| QY                    | 284             | GCACAAACGGCTTGGCCAGCTGGTCCAGCCOCTTGGCTCGGCTGACATCGGAGGCTGCACTG | 343       |             |  |
| Db                    | 61              | GCACAAACGGCTTGGCCAGCTGGTCCAGCCOCTTGGCTCGGCTGACATCGGAGGCTGCACTG | 120       |             |  |
| QY                    | 344             | GAGTGACAGCCTTGGCCCAACTGGGCTCAAGCCAGGCGACCCCTCTGTGGAATCCCAACCCC | 403       |             |  |
| Db                    | 121             | GAGTGACAGCCTTGGCCCAACTGGCTCAAGCCAGGCGACCCCTCTGTGGAATCCCAACCCC  | 180       |             |  |
| QY                    | 404             | GAGCCTTGCAATCCGGCCCTTGGCGCACCCCTGCAAGTGGGCTGGAAACATGCACTGCTGCC | 463       |             |  |
| Db                    | 181             | GAGCCTTGGCTTCCGGCCCTTGGCGCACCCCTGCAAGTGGGCTGGAAACATGCACTGCTGCC | 240       |             |  |
| QY                    | 464             | CGCGGGCTTGGCGTCTTTGTGAAAGTGGTCAGGCTATGTTTTCACAGGGGCGAGCGGTA    | 523       |             |  |
| Db                    | 241             | CGCGGGCTTGGCGTCTTTGTGAAAGTGGTCAGGCTATGTTTTCACAGGGGCGAGCGGTA    | 300       |             |  |
| QY                    | 524             | CAGCCAGCGGCGAGGAGAGTGTCTCGCACGGCCACTGTCACCCACTTACACGAGCTCGT    | 583       |             |  |
| Db                    | 301             | CAGCCAGCGGCGAGGAGAGTGTCTGTCACAGGCGCACTGTCACCCACTTACACGAGCTCGT  | 360       |             |  |
| QY                    | 584             | GTGGGCCACCTCAAGCCAGCTGGGCTGTGGGGCGCACCTGTGCTCTGTCAGGCCACAGCAGC | 643       |             |  |
| Db                    | 361             | GTGGGCCACCTCAAGCCAGCTGGGCTGTGGGGCGCACCTGTGCTCTGTCAGGCCACAGCAGC | 420       |             |  |
| QY                    | 644             | GATPAGAAGCCTTTGCTGTGTGCTTACTTCCCCCGAGGCACTGGGAGGTCACGGGAAGAC   | 703       |             |  |
| Db                    | 421             | GATPAGAAGCCTTTGCTGTGTGCTTACTTCCCCCGAGGCACTGGGAGGTCACGGGAAGAC   | 480       |             |  |



QY 704 AATCATCCCTATATAAGAGGTCCTGGTTCCTCTGACAGCAGTCTCTCAGGCTG 763  
 Db 481 AATCGTCCCTATATAAGAGGTCCTGGTTCCTCTGACAGCAGTCTCTCAGGCTG 540  
 QY 764 CTTCAAGCTGGACCATCGAGGGGCTCTGTGAGTCCCGAGGAGTCTCTGCGCAT 823  
 Db 541 CTTCAAGCTGGACCATCGCA-GGGGCTCTGTGAGTCCCGAGGAGTCTCTGCGCAT 599  
 QY 824 GAGTGCAGAACCATGAGCGTCTCAACATCAGACCTGCCACTGCCACTGTCCCGCTGG 883  
 Db 600 GAGTGCAGAACCATGAGCGTCTCAACATCAGACCTGCCACTGCCACTGTCCCGCTGG 659  
 QY 884 CTACACGGGAGTACTGCAAGTGAAGTGCAG 916  
 Db 660 CTACACGGGAGTACTGCAAGTGAAGTGCAG 692  
  
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 DEFINITION mRNA sequence.  
 ACCESSION AA903561  
 VERSION AA903561.1 GI:3038684  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 383)  
 NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 AUTHORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 Tumor Gene Index  
 JOURNAL Unpublished (1997)  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-r@mail.nih.gov  
 Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael  
 Emmert-Buck, M.D., Ph.D.  
 cDNA Library Preparation: M. Bento Soares, Ph.D.  
 DNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
 www-bio.llnl.gov/bbrp/image/image.html  
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 High quality sequence stop: 302.  
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 /clone\_lib="NCI\_CGAP\_GC4"  
 /tissue\_type="pooled germ cell tumors"  
 /lab\_host="DH10B"  
 /note="Vector: pT73D-Pac (Pharmacia) with a modified  
 polylinker; 1st strand cDNA was prepared from 3 pooled  
 germ cell tumors, and was then primed with a Not I -  
 oligo(dT) primer. Double-stranded cDNA was ligated to Eco  
 RI adaptors (Pharmacia), digested with Not I and cloned  
 into the Not I and Eco RI sites of the modified pT73  
 vector. Library is normalized. Library was constructed by  
 Bento Soares and M. Fatima Bonaldo."  
 BASE COUNT 77 a 114 c 105 g 87 t  
 ORIGIN  
 Query Match 15.2%; Score 285; DB 9; Length 383;  
 Best Local Similarity 99.7%; Pred. No. 2e-85;  
 Matches 335; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 1486 CTTGAGGCTGACCATGCTCCCTGCGCTGGAGCAGCGCTCTGTACCTG 1545  
 Db 383 CTTGAGGCTGACCATGCTCCCTGCGCTGGAGCAGCGCTCTGTACCTG 324

QY 1546 TCTGCCACCTGTCTGGAACAAGGCCAGGTTAAGACCATGCTCATGTCCAAAGAGG 1605  
 Db 323 TCTGCCACCTGTCTGGAACAAGGCCAGGTTAAGACCATGCTCATGTCCAAAGAGG 264  
 QY 1606 TCTCAGACCTTGCACATGCCAAGTTCGCGAGAGAGGAGGAGGAGGAGGAGGAGG 1665  
 Db 263 TCTCAGACCTTGCACATGCCAAGTTCGCGAGAGAGGAGGAGGAGGAGGAGGAGG 204  
 QY 1666 CAGGAGGTGAGTGTAGGAAGAAGCTGGGGCCCTTCGCCCTGCTTTTGTGAGGAGATGGG 1725  
 Db 203 CAGGAGGTGAGTGTAGGAAGAAGCTGGGGCCCTTCGCCCTGCTTTTGTGAGGAGATGGG 144  
 QY 1726 CTTCAATAGATGCGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1785  
 Db 143 CTTCAATAGATGCGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 84  
 QY 1786 ACCTGGCCACGACCTGTGGGGCAGCGGAGCTTCCC 1821  
 Db 83 ACCTGGCCACGACCTGTGGGGCAGCGGAGCTTCCC 48  
  
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 LOCUS wfilla11.x1 Soares\_NFL\_T\_GBC\_S1 Homo sapiens cDNA clone  
 DEFINITION IMAGE:2350268 3', mRNA sequence.  
 ACCESSION AI827695  
 VERSION AI827695.1 GI:5448366  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 492)  
 NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 AUTHORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 Tumor Gene Index  
 JOURNAL Unpublished (1997)  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-r@mail.nih.gov  
 This clone is available royalty-free through LLNL; contact the  
 IMAGE Consortium (info@image.llnl.gov) for further information.  
 Insert Length: 759 Std Error: 0.00  
 Seq primer: -40UP from Gibco  
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 /lab\_host="DH10B"  
 /note="Organ: pooled; Vector: pT73D-Pac (Pharmacia) with  
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 Equal amounts of plasmid DNA from three normalized  
 libraries (fetal lung NBHL19W, testis NHT, and B-cell  
 NCI\_CGAP\_GCB1) were mixed, and ss circles were made in  
 vitro. Following HAP purification, this DNA was used as  
 tracer in a subtractive hybridization reaction. The driver  
 was PCR-amplified cDNAs from pools of 5,000 clones made  
 from the same 3 libraries. The pools consisted of  
 I.M.A.G.E. clones 297480-302087, 682632-687239,  
 726408-728711, and 729096-731399. Subtraction by Bento  
 Soares and M. Fatima Bonaldo."  
 BASE COUNT 98 a 149 c 142 g 103 t  
 ORIGIN  
 Query Match 15.2%; Score 285; DB 9; Length 492;  
 Best Local Similarity 99.5%; Pred. No. 1.7e-85;  
 Matches 385; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1452 GCCCAGGAGCAGCATCTCCCGTGGGCCCGAGGCTCTGAGGCTGACCATGCTCCCT 1511



| TITLE | JOURNAL | COMMENT | FEATURES | source |
|-------|---------|---------|----------|--------|
|       |         |         |          |        |

|            |             |
|------------|-------------|
| BASE COUNT | Query Match |
| ORIGIN     | Best Local  |
|            | Matches     |
| QY         | 1611 G      |
| Db         | 109 G       |
| QY         | 1671 A      |
| Db         | 169 A       |

|            |      |    |      |
|------------|------|----|------|
| Qy         | 1731 | Al | 1731 |
| Db         | 229  | Al | 229  |
| Qy         | 1791 | C  | 1791 |
| Db         | 289  | C  | 289  |
| Qy         | 1851 | T  | 1851 |
| Db         | 349  | T  | 349  |
| RESULT 23  |      |    |      |
| BI761101   |      |    |      |
| LOCUS      |      |    |      |
| DEFINITION |      |    |      |
| ACCESSION  |      |    |      |
| VERSION    |      |    |      |
| KEYWORDS   |      |    |      |
| SOURCE     |      |    |      |
| ORGANISM   |      |    |      |

|           |
|-----------|
| REFERENCE |
| AUTHORS   |
| TITLE     |
| JOURNAL   |
| COMMENT   |

an, T.J. and  
model of col  
array

USA

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length 470;
indels    0;
          AGTGGAGGCCCA
          |||||
          AGTGGAGGCCCA
          |||||
          GGAAGATGGGCT
          |||||
          GGAAGATGGGCT
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linear ES  
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 /clone\_lib="NIH\_MGC\_116"  
 /lab\_host="DH10B"  
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 84 a 180 c 151 g 85 t

BASE COUNT 84 a 180 c 151 g 85 t

Query Match 13.8%; Score 259; DB 13; Length 500;  
 Best Local Similarity 99.4%; Pred. No. 8.3e-77;  
 Matches 359; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CTCCTTTGTCCACGAGCCGCTGACTCTCTGGAGATTGTGAATAGCTCCATCCAGCCTG 60  
 Db 15 CTCCTTTGTCCACGAGCCGCTGACTCTCTGGAGATTGTGAATAGCTCCATCCAGCCTG 74

QY 61 AGAACAAGCCGGTGGCTGAGCAGGCTGTGCACGAGCAGCTGACGGGCCCAACAGAC 120  
 Db 75 AGAACAAGCCGGTGGCTGAGCAGGCTGTGCACGAGCAGCTGACGGGCCCAACAGAC 134

QY 121 CCATGCTGCATCCAGAGACCTCCCTGGCCGGGGGCACTCTCTGGCTGTGCTCTGGCCC 180  
 Db 135 CCATGCTGCATCCAGAGACCTCCCTGGCCGGGGGCACTCTCTGGCTGTGCTCTGGCCC 194

QY 181 TCCTTGGCAACCTGGGCGAGAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGG 240  
 Db 195 TCCTTGGCAACCTGGGCGAGAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGG 254

QY 241 CGGAGCCCTGAACAGGAGAGGAGTTTCTGCTCTCTCCCTGCACACCCCTCGCGCA 300  
 Db 255 CGGAGCCCTGAACAGGAGAGGAGTTTCTGCTCTCTCCCTGCACACCCCTCGCGCA 314

QY 301 GCTGGTCCAGCCCTCGGCTGACATGCGGAGGCTGACTGGAGTGACAGCCTGGGCC 360  
 Db 315 GCTGGTCCAGCCCTCGGCTGACATGCGGAGGCTGACTGGAGTGACAGCCTGGGCC 374

QY 361 A 361  
 Db 375 A 375

RESULT 24  
 BI759120  
 LOCUS  
 DEFINITION 709 bp mRNA linear EST 25-SEP-2001  
 mRNA sequence.  
 BI759120  
 VERSION  
 KEYWORDS  
 SOURCE  
 ORGANISM  
 Homo sapiens  
 Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 1 (bases 1 to 709)  
 NIH-MGC http://mgc.nci.nih.gov/  
 National Institutes of Health, Mammalian Gene Collection (MGC)  
 Unpublished (1999)  
 Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-re@mail.nih.gov

Tissue Procurement: Life Technologies, Inc.  
 cDNA Library Preparation: Life Technologies, Inc.  
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
 DNA Sequencing by: Incyte Genomics, Inc.  
 Clone Distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:  
 http://image.llnl.gov  
 Plate: L1AM11456 row: 1 column: 08  
 High quality sequence stop: 709.  
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 /db\_xref="taxon:9606"  
 /clone="IMAGE:5182999"  
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 /lab\_host="DH10B"  
 /note="Organ: pooled colon, kidney, stomach; Vector: pCMV-SPORT6; Site\_1: NotI; Site\_2: EcoRV (destroyed); RNA source anonymous pool of 3 colons, age 26 yo male, 49 yo female, 71 yo male colon; 46 yo male kidney, and pool of 2 stomachs, 62 yo male and 70 yo female. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.4 kb, insert size range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 023. Note: this is a NIH\_MGC Library."  
 124 a 240 c 220 g 125 t

BASE COUNT 124 a 240 c 220 g 125 t

Query Match 13.8%; Score 259; DB 13; Length 709;  
 Best Local Similarity 99.4%; Pred. No. 6.7e-77;  
 Matches 359; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CTCCTTTGTCCACGAGCCGCTGACTCTCTGGAGATTGTGAATAGCTCCATCCAGCCTG 60  
 Db 48 CTCCTTTGTCCACGAGCCGCTGACTCTCTGGAGATTGTGAATAGCTCCATCCAGCCTG 107

QY 61 AGAACAAGCCGGTGGCTGAGCAGGCTGTGCACGAGCAGCTGACGGGCCCAACAGAC 120  
 Db 108 AGAACAAGCCGGTGGCTGAGCAGGCTGTGCACGAGCAGCTGACGGGCCCAACAGAC 167

QY 121 CCATGCTGCATCCAGAGACCTCCCTGGCCGGGGGCACTCTCTGGCTGTGCTCTGGCCC 180  
 Db 168 CCATGCTGCATCCAGAGACCTCCCTGGCCGGGGGCACTCTCTGGCTGTGCTCTGGCCC 227

QY 181 TCCTTGGCAACCTGGGCGAGAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGG 240  
 Db 228 TCCTTGGCAACCTGGGCGAGAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGG 287

QY 241 CGGAGCCCTGAACAGGAGAGGAGTTTCTGCTCTCTCCCTGCACACCCCTCGCGCA 300  
 Db 288 CGGAGCCCTGAACAGGAGAGGAGTTTCTGCTCTCTCCCTGCACACCCCTCGCGCA 347

QY 301 GCTGGTCCAGCCCTCGGCTGACATGCGGAGGCTGGAGTGACAGCCTGGGCC 360  
 Db 348 GCTGGTCCAGCCCTCGGCTGACATGCGGAGGCTGGAGTGACAGCCTGGGCC 407

QY 361 A 361  
 Db 408 A 408

RESULT 25  
 BI760121  
 LOCUS  
 DEFINITION 710 bp mRNA linear EST 25-SEP-2001  
 mRNA sequence.  
 BI760121  
 ACCESSION  
 VERSION  
 KEYWORDS  
 SOURCE  
 ORGANISM  
 Homo sapiens

LOCUS BM924615 1034 bp mRNA linear EST 12-MAR-2002  
 DEFINITION AGENCOURT\_6767842 NIH\_MGC\_116 Homo sapiens cDNA clone IMAGE:5761001  
 5', mRNA sequence.  
 ACCSSION BM924615  
 VERSION BM924615.1 GI:19374994  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 1034)  
 AUTHORS NIH-MGC http://mgc.nci.nih.gov/.  
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
 JOURNAL Unpublished (1999)  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: cgabs-remail.nih.gov  
 Tissue Procurement: Life Technologies, Inc.  
 cDNA Library Preparation: Life Technologies, Inc.  
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
 DNA Sequencing by: Agencourt Bioscience Corporation  
 Clone distribution: MGC clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
 http://image.llnl.gov  
 Plate: LLAM12808 row: o column: 18  
 High quality sequence stop: 685.

FEATURES

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 /lab\_host="DH10B"  
 /note="Organ: pooled colon, kidney, stomach; Vector: pCMV-SPORT6; Site: 1: NotI; Site: 2: EcoRV (destroyed); RNA source anonymous pool of 3 colons, age 26 yo male, 49 yo female, 71 yo male colon; 46 yo male kidney, and pool of 2 stomachs, 62 yo male and 70 yo female. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.4 kb, insert size range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 023. Note: this is a NIH\_MGC Library."  
 BASE COUNT 186 a 336 c 321 g 189 t 2 others

ORIGIN

Query Match 13.1%; Score 246; DB 14; Length 1034;  
 Best Local Similarity 99.4%; Pred. No. 1.2e-72;  
 Matches 346; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 14 CAGCCAGCCTGACTCTGGAGATTGTGAATAGCTCCATCCAGCCTGAGAAACAGCCGG 73  
 Db 11 CAGCCAGCCTGACTCTGGAGATTGTGAATAGCTCCATCCAGCCTGAGAAACAGCCGG 70  
 QY 74 GTGGCTGAGCAGGCTGTGCAGGAGCCTGACGGGCCCAACAGACCCATGCTGCATCC 133  
 Db 71 GTGGCTGAGCAGGCTGTGCAGGAGCCTGACGGGCCCAACAGACCCATGCTGCATCC 130  
 QY 134 AGAGACCTCCCTGGCGGGGATCTCTGGCTGTGCTCTGGCCCTCTTGGCACCAC 193  
 Db 131 AGAGACCTCCCTGGCGGGGATCTCTGGCTGTGCTCTGGCCCTCTTGGCACCAC 190  
 QY 194 CTGGGAGAGGTGTGGCCACCCAGCTGCAGGAGCAGCTCCGATGGCCGAGCCCTGAA 253  
 Db 191 CTGGGAGAGGTGTGGCCACCCAGCTGCAGGAGCAGCTCCGATGGCCGAGCCCTGAA 250  
 QY 254 CAGGAGAGAGTTTCTTGTCTCTCTCTGCACAAACCGCTGGCAGCTGGTCCAGCC 313  
 Db 251 CAGGAGAGAGTTTCTTGTCTCTCTCTGCACAAACCGCTGGCAGCTGGTCCAGCC 310  
 QY 314 CCCTGCGGCTGACATGCGGAGGCTGGAGTGACAGCTGGGCCA 361  
 Db 311 CCCTGCGGCTGACATGCGGAGGCTGGAGTGACAGCTGGGCCA 358

Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 710)  
 AUTHORS NIH-MGC http://mgc.nci.nih.gov/.  
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
 JOURNAL Unpublished (1999)  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: cgabs-remail.nih.gov  
 Tissue Procurement: Life Technologies, Inc.  
 cDNA Library Preparation: Life Technologies, Inc.  
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
 DNA Sequencing by: InCyte Genomics, Inc.  
 Clone distribution: MGC clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
 http://image.llnl.gov  
 Plate: LLAM11461 row: n column: 03  
 High quality sequence stop: 704.

FEATURES

source  
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 /db\_xref="taxon:9606"  
 /clone="IMAGE:5184962"  
 /clone\_lib="NIH\_MGC\_116"  
 /lab\_host="DH10B"  
 /note="Organ: pooled colon, kidney, stomach; Vector: pCMV-SPORT6; Site: 1: NotI; Site: 2: EcoRV (destroyed); RNA source anonymous pool of 3 colons, age 26 yo male, 49 yo female, 71 yo male colon; 46 yo male kidney, and pool of 2 stomachs, 62 yo male and 70 yo female. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.4 kb, insert size range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 023. Note: this is a NIH\_MGC Library."  
 BASE COUNT 131 a 228 c 226 g 125 t

ORIGIN

Query Match 13.5%; Score 254; DB 13; Length 710;  
 Best Local Similarity 99.3%; Pred. No. 3.1e-75;  
 Matches 404; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 486 GAAGTGTGACGCTATGTTTGCAGAGGGGACGCTACAGCCAGCGGAGAGGTGT 545  
 Db 283 GAAGTGTGACGCTATGTTTGCAGAGGGGACGCTACAGCCAGCGGAGAGGTGT 342  
 QY 546 GCTCGCAACGCCACTGCACCCACTACACGAGCTGTGTGGGCCACCTCAAGCCAGCTG 605  
 Db 343 GCTCGCAACGCCACTGCACCCACTACACGAGCTGTGTGGGCCACCTCAAGCCAGCTG 402  
 QY 606 GGCTGTGGGGGACCTGTGCTCTGCAGGGGACGAGATAGAGCTTTGTGTGCC 665  
 Db 403 GGCTGTGGGGGACCTGTGCTCTGCAGGGGACGAGATAGAGCTTTGTGTGCC 462  
 QY 666 TACTCCCCGGAGCACTGGAGGTCAACGGGAAGACAATCATCCCTATAGAAGGTT 725  
 Db 463 TACTCCCCGGAGCACTGGAGGTCAACGGGAAGACAATCATCCCTATAGAAGGTT 522  
 QY 726 GCCTGGTGTCTGCTTCGACAGCCAGCTGTCTCAGGCTCTTCAAGCCTGGACCATGCA 785  
 Db 523 GCCTGGTGTCTGCTTCGACAGCCAGCTGTCTCAGGCTCTTCAAGCCTGGACCATGCA 582  
 QY 786 GGGGGCTCTGTGAGTGTCCCGAGGATCTTGTGCTGATGAGCTGCCAGAACCATGGAGT 845  
 Db 583 GGGGGCTCTGTGAGTGTCCCGAGGATCTTGTGCTGATGAGCTGCCAGAACCATGGAGT 642  
 QY 846 CTCAACATCAGCACCTGCCACTGCCACTGTCCCTTGGCTACACGG 892  
 Db 643 CTCAACATCAGCACCTGCCACTGCCACTGTCCCTTGGCTACACGG 689

RESULT 26  
 BM924615

|                       |   |   |                      |
|-----------------------|---|---|----------------------|
| QY                    | 1795  | AGACCTGTGGGCACGGAGCTTCCTCTGGCATGAACCCAC             | 1838                 |
| Db                    | 74  | AGACCTGTGGGCACGGAGCTTCCTCTGGCATGAACCCAC             | 31                   |
| RESULT 28             |   |   |                      |
| AA976491/c            |   |   |                      |
| LOCUS                 |   |   |                      |
| DEFINITION            | AA976491  | 481 bp mRNA linear                                  | EST 17-MAR-1999      |
| ACCESSION             | oa71e08.s1  | NCI_CGAP_Kid6 Homo sapiens cDNA clone IMAGE:1591814 | 3'                   |
| VERSION               | AA976491  | mRNA sequence.                                      |                      |
| KEYWORDS              | AA976491.1  | GI:3152283  |                      |
| SOURCE                | EST.  |   |                      |
| ORGANISM              | human.  |   |                      |
| REFERENCE             | Homo sapiens  |   |                      |
| AUTHORS               | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; |   |                      |
| TITLE                 | Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.        |   |                      |
| JOURNAL               | 1 (bases 1 to 481)  |   |                      |
| COMMENT               | NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.                     |   |                      |
|                       | National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  |   |                      |
|                       | Tumor Gene Index  |   |                      |
|                       | Unpublished (1997)  |   |                      |
|                       | Contact: Robert Strausberg, Ph.D.                                 |   |                      |
|                       | Email: cgapbs-r@mail.nih.gov                                      |   |                      |
|                       | Tissue Procurement: L. Jeffrey Medeiros, M.D., Michael R.         |   |                      |
|                       | Emmert-Buck, M.D., Ph.D.  |   |                      |
|                       | CDNA Library Preparation: Stratagene, Inc.                        |   |                      |
|                       | CNA Library Arrayed by: Greg Lennon, Ph.D.                        |   |                      |
|                       | DNA sequencing by: Washington University Genome Sequencing Center |   |                      |
|                       | found through the NCI-CGAP clone distribution information can be  |   |                      |
|                       | found through the I.M.A.G.E. Consortium/LLNL at:                  |   |                      |
|                       | www.bio.llnl.gov/hbrp/image/image.html                            |   |                      |
|                       | Insert Length: 1316 Std Error: 0.00                               |   |                      |
|                       | Seq primer: -40m13 fwd. Et from Amersham                          |   |                      |
|                       | High quality sequence stop: 476.                                  |   |                      |
| FEATURES              | Location/Qualifiers   |   |                      |
| source                | 1..481  |   |                      |
|                       | /organism="Homo sapiens"  |   |                      |
|                       | /db_xref="taxon:9606"   |   |                      |
|                       | /clone="IMAGE:1591814"  |   |                      |
|                       | /clone_lib="NCI_CGAP_Kid6"  |   |                      |
|                       | /sex="mixed"  |   |                      |
|                       | /tissue_type="kidney tumor"                                       |   |                      |
|                       | /lab_host="SOLR (kanamycin resistant)"                            |   |                      |
|                       | /note="Organ: kidney; Vector: Bluescript SK-; Site_1:             |   |                      |
|                       | EcoRI; Site_2: XhoI; Cloned unidirectionally. Primer:             |   |                      |
|                       | Oligo qT. Pooled kidney tumors. 5' adaptor sequence: 5'           |   |                      |
|                       | GAATTCGGCAGGAG 3' adaptor sequence: 5'                            |   |                      |
|                       | CTCAGTGTGTTTTTTTTTTT 3' Average insert size: 1.0 kb."             |   |                      |
|                       | 95 a 143 c 131 g 112 t  |   |                      |
| BASE COUNT            |   |   |                      |
| ORIGIN                |   |   |                      |
| Query Match           | 12.8%;  | Score 241;  | DB 9; Length 481;    |
| Best Local Similarity | 99.7%;  | Pred. No. 8.9e-71;                                  |                      |
| Matches 291;          | Conservative  | 0; Mismatches                                       | 1; Indels 0; Gaps 0; |
| 1505                  | GCTCCCTCGCCTGGCGGAGCACC   | GGCTCTGCTTACCTGTCTGCCCACCTGCTGGAA                   | 1564                 |
| 364                   | GCTCCCTCGCCTGGCGGAGCACC   | GGCTCTGCTTACCTGTCTGCCCACCTGCTGGAA                   | 305                  |
| 1565                  | CAAGGCCAGGTTAAGACCATG   | CGCTTCATGTCCTCAAGAGGTCACAGCTTCGCAAA                 | 1624                 |
| 304                   | CAAGGCCAGGTTAAGATCATG   | CGCTTCATGTCCTCAAGAGGTCACAGCTTCGCAAA                 | 245                  |
| 1625                  | CCAGAAGTTGGGCAGAGAGG  | AGGCCACCTAGTCAGGGCCAGGGAGTGAGTGT                    | 1684                 |
| 244                   | CCAGAAGTTGGGCAGAGAGG  | AGGCCACCTAGTCAGGGCCAGGGAGTGAGTGT                    | 185                  |
| 1685                  | GAAGCTGGGGCCCTCGCCTG  | CTGCTTTGATTGGCAGATGGGCTTCAAT                        | 1744                 |
| 184                   | GAAGCTGGGGCCCTCGCCTG  | CTGCTTTGATTGGCAGATGGGCTTCAAT                        | 125                  |

```
QY 1745 GAGAGACACCCAGTGTGTCACAAAGGCTGCTCTCTTCCACCTGGCCAG 1796
|||||
Db 124 GAGAGACACCCAGTGTGTCACAAAGGCTGCTCTCTTCCACCTGGCCAG 73
|||||

RESULT 29
AA582202/c 288 bp mRNA linear EST 26-SEP-1997
LOCUS
DEFINITION
ACCESSION
AA582202
VERSION
AA582202.1 GI:2359562
KEYWORDS
EST.
SOURCE
human.
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 288)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
JOURNAL
COMMENT
Contact: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: L. Jeffrey Medeiros, M.D., Michael R.
Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: Stratagene, Inc.
DNA Sequencing by: Greg Lennon, Ph.D.
CDNA Library Arrayed by: Washington University Genome Sequencing Center
DNA Distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 835 Std Error: 0.00
Seq primer: -28ml3 rev1 ET from Amersham
High quality sequence stop: 256.

FEATURES
Location/Qualifiers
1..288
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1087129"
/clone_lib="NCI_CGAP_Kid6"
/sex="mixed"
/tissue_type="kidney tumor"
/lab_host="SOLR (kanamycin resistant)"
/note="Organ: kidney; Vector: Bluescript SK-; Site_1:
ECORI; Site_2: XhoI; Cloned unidirectionally. Primer:
Oligo dt. Pooled kidney tumors. 5' adaptor sequence: 5'
GAATTCGGCACGAG 3' 3' adaptor sequence: 5'
CTCGAGTGTGTTTTTTTTTTT 3' Average insert size: 1.0 kb."
BASE COUNT 57 a 92 c 73 g 66 t
ORIGIN
Query Match 12.6%; Score 237; DB 9; Length 288;
Best Local Similarity 99.7%; Pred. No. 2.7e-69;
Matches 287; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1534 TCTGTTACCTGTGCGCCACCTGCTGTGGAACAGGCGCAGTTAAGACCATGCTCA 1593
|||||
Db 288 TCTGTTACCTGTGCGCCACCTGCTGTGGAACAGGCGCAGTTAAGACCATGCTCA 229
|||||

QY 1594 TGTCACAAAGAGGTCACAGACCTTGCACAAATGCCAAGTTGGGCAGAGAGCGCAGGAG 1653
|||||
Db 228 TGTCACAAAGAGGTCACAGACCTTGCACAAATGCCAAGTTGGGCAGAGAGCGCAGGAG 169
|||||

QY 1654 GCCAGTGGGGCCAGGGAGTGAGTTAGAAAGAGCTGGGGCCCTCGCCTGCTTTGAT 1713
|||||
Db 168 GCCAGTGGGGCCAGGGAGTGAGTTAGAAAGAGCTGGGGCCCTCGCCTGCTTTGAT 109
|||||

QY 1714 TGGAGAGTGGGCTTCAATTAGATGCGAAGGAGAGACCGCCAGTGGTCCAAAAGG 1773
|||||
Db 108 TGGAGAGTGGGCTTCAATTAGATGCGAAGGAGAGACCGCCAGTGGTCCAAAAGG 49
|||||

QY 1774 CTGCTCTCTTCCACCTGGCCCCAGACCCCTGTGGGGCAGCGAGCTTCCC 1821
|||||

Db 48 CTGCTCTCTTCCACCTGGCCCCAGACCCCTGTGGGGCAGCGAGCTTCCC 1
|||||

RESULT 30
AI589178/c 445 bp mRNA linear EST 12-MAY-1999
LOCUS
DEFINITION
ACCESSION
AI589178
VERSION
AI589178.1 GI:4598226
KEYWORDS
EST.
SOURCE
human.
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 445)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
JOURNAL
COMMENT
Contact: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
DNA Sequencing by: Greg Lennon, Ph.D.
CDNA Library Arrayed by: Washington University Genome Sequencing Center
DNA Distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 992 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 422
POLYA-No.

FEATURES
Location/Qualifiers
1..445
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2171596"
/clone_lib="NCI_CGAP_Kid11"
/lab_host="DH10B"
/note="Organ: kidney; Vector: pT7m3D-Pac (Pharmacia) with
a modified polylinker; Site_1: Not I; Site_2: Eco RI;
Plasmid DNA from the normalized library NCI_CGAP_Kid3 was
prepared, and ss circles were made in vitro. Following HAP
purification, this DNA was used as tracer in a subtractive
hybridization reaction. The driver was PCR-amplified cDNAs
from a pool of 5,000 clones made from the same library
(cloneids 132376-132391, 1456007-1456775, and
1500552-1502855). Subtraction by Bento Soares and M.
Fatima Bonaldo."
BASE COUNT 86 a 135 c 127 g 97 t
ORIGIN
Query Match 12.5%; Score 234; DB 9; Length 445;
Best Local Similarity 100.0%; Pred. No. 2.1e-68;
Matches 234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1630 AGTTGGGCAGAGAGCGCAGGAGGCGCAGTGGGGCAGGAGTGTAGTGTAGGAAGC 1689
|||||
Db 234 AGTTGGGCAGAGAGCGCAGGAGGCGCAGTGGGGCAGGAGTGTAGTGTAGGAAGC 175
|||||

QY 1690 TGGGGCCCTTGCCTGCTTTTGAATGGGAAGATGGCTTCAATTAGATGCGGAAGAGAG 1749
|||||
Db 174 TGGGGCCCTTGCCTGCTTTTGAATGGGAAGATGGCTTCAATTAGATGCGGAAGAGAG 115
|||||

QY 1750 GACACCGCAGTGGTCCAAAAGGCTGCTCTCTTCCACCTGGCCAGACCCCTGTGGGGCA 1809
|||||
Db 114 GACACCGCAGTGGTCCAAAAGGCTGCTCTCTTCCACCTGGCCAGACCCCTGTGGGGCA 55
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QY 1810 GCGAGCTTCCCTGTGGCATGAACCCACGGGGTATTAAATTATGAATCAGCTG 1863
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Db 54 GCGGAGCTTCCTGCTGGCATGAACCCACGGGGTATTAATAATTATGAATCAGCTG 1
RESULT 31
AA812725/c 330 bp mRNA linear EST 13-FEB-1998
LOCUS a31h02.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391955 3',
DEFINITION mRNA sequence.
ACCESSION AA812725
VERSION AA812725.1 GI:2882789
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 330)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo
, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/dbrrp/image/image.html
Seq primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 254.
FEATURES
Location/Qualifiers
1..330
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="1391955"
/clone_lib="Soares_testis_NHT"
/sex="male"
/lab_host="DH10B"
/note="Vector: pT73D-Pac (Pharmacia) with a modified
polylinker; Site.1: Not I; Site.2: Eco RI; 1st strand cDNA
was prepared from mRNA obtained from Clontech Laboratories
, Inc., and primed with a Not I - oligo(dT) primer [5',
TGTTACCAATCTGAAGTGGAGCGCGCCCAATTTTCTTTTCTTTT 3'].
Double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Not I and cloned into the Not I
and Eco RI sites of the modified pT73 vector. Library
went through one round of normalization to Cot5, and was
constructed by Bento Soares and M. Fatima Bonaldo."
BASE COUNT 64 a 102 c 81 g 83 t
ORIGIN
Query Match 10.7%; Score 200; DB 9; Length 330;
Best Local Similarity 99.3%; Pred. No. 5.9e-57;
Matches 300; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1537 GCTTACCTGCTGCCACCTGCTGGAACAAAGGCCAGGTAGACACACATGCTCATGT 1596
Db 330 GCTTACCTGCTGCCACCTGCTGGAACAAAGGCCAGGTAGACACACATGCTCATGT 271
QY 1597 CCAAGAGGCTCTAGACCTTGCACATGCCAAGATTTGGSCAGAGAGCGAGGCC 1656
Db 270 CCAAGAGGCTCTAGACCTTGCACATGCCAAGATTTGGSCAGAGAGCGAGGCC 211
QY 1657 AGTAGGGCCAGGAGTGAGTCTTAGAACAAAGCTGGGGCCCTTCGCCCTTTGATTGG 1716
Db 210 AGTAGGGCCAGGAGCGAGTGTAGAACAAAGCTGGGGACCTTCGCCCTTTGATTGG 151
QY 1717 GAAGATGGGCTTCAATTAGATGGCAAGAGAGGACACCGCCAGTGGTCCAAAAGGCTG 1776
Db 150 GAAGATGGGCTTCAATTAGATGGCAAGAGAGGACACCGCCAGTGGTCCAAAAGGCTG 91
QY 1777 CTCCTCTCCACCTGCCCCAGACCCCTGTGGGGAGCGGAGCTTCCTCTGTGGCATGAACCCC 1836

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Db 90 CTCTCTTCCACCTGGCCAGACCTGTGGGCGAGGAGCTTCCCTGTGGCATGAACCCC 31
QY 1837 AC 1838
Db 30 AC 29
RESULT 32
AI657201/c 312 bp mRNA linear EST 14-DEC-1999
LOCUS tt50d10.x1 NCI-CGAP_GC6 Homo sapiens cDNA clone IMAGE:2244211 3',
DEFINITION similar to contains TAR1.C1 TAR1 repetitive element ;, mRNA
sequence.
ACCESSION AI657201
VERSION AI657201.1 GI:4741180
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 312)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael
R. Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima
Bonaldo, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/dbrrp/image/image.html
Insert Length: 942 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 287.
FEATURES
Location/Qualifiers
1..312
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2244211"
/clone_lib="NCI-CGAP_GC6"
/tissue_type="pooled germ cell tumors"
/lab_host="DH10B"
/note="Vector: pT73D-Pac (Pharmacia) with a modified
polylinker; Site.1: Not I; Site.2: Eco RI; Plasmid DNA
from the normalized library NCI-CGAP_GC4 was prepared, and
ss circles were made in vitro. Following HAP purification,
this DNA was used as tracer in a subtractive hybridization
reaction. The driver was PCR-amplified cDNAs from a pool
of 5,000 clones made from the same library (clonoids
1257096-1258631, 1469064-1470983, and 1475592-1476743).
Subtraction by Bento Soares and M. Fatima Bonaldo."
BASE COUNT 60 a 101 c 84 g 67 t
ORIGIN
Query Match 10.3%; Score 193; DB 9; Length 312;
Best Local Similarity 99.6%; Pred. No. 1.3e-54;
Matches 243; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1514 CCTGCCCTGGGAGCAGCGGCTGCTGCTTACCTGTCTGCCACCTGTCTGGAACAGGGCCA 1573
Db 244 CCTGCCCTGGGAGCAGCGGCTGCTGCTTACCTGTCTGCCACCTGTCTGGAACAGGGCCA 185
QY 1574 GGTTAAGACACATGCTCATGTCCAAAGAGGTCTCAGACCTTGCACATGCCAGAAGTT 1633
Db 184 GGTTAAGACACATGCTCATGTCCAAAGAGGTCTCAGACCTTGCACATGCCAGAAGTT 125
QY 1634 GGGCAGAGAGGAGGAGGAGGCCAGTGGAGGCCAGGAGTGTAGAGAGCTGGG 1693

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|||||  
Db 183 GAGCCTGAACAGGAGGAGAGTTTCTGCTCTCTCCCTGCACACCGCTGGCAGCT 242  
|||||  
Qy 304 GGGTCCAGCCCCCTGGGCTGACATGCGGAGGCTGGAGTGGACGTGACAGCTGGCCCCA 361  
|||||  
Db 243 GGGTCCAGCCCCCTGGGCTGACATGCGGAGGCTGGAGTGGAGTGGACGTGGCCCCA 300  
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RESULT 34  
BI762690 852 bp mRNA linear EST 25-SEP-2001  
LOCUS 603048444F1 NIH\_MGC\_116 Homo sapiens cdna clone IMAGE:5188643 5',  
DEFINITION mRNA sequence.  
ACCESSION BI762690  
VERSION BI762690.1 GI:15754256  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 852)  
AUTHORS NIH-MGC http://mgc.nci.nih.gov/  
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
JOURNAL Unpublished (1999)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: cgabbs-r@mail.nih.gov  
Tissue Procurement: Life Technologies, Inc.  
CDNA Library Preparation: Life Technologies, Inc.  
DNA Sequencing by: Incyte Genomics, Inc.  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
http://image.llnl.gov  
Plate: LLML1471 row: g column: 12  
High quality sequence stop: 849.  
FEATURES  
Location/Qualifiers  
source  
1..852  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:5188643"  
/clone\_lib="NIH\_MGC\_116"  
/lab\_host="DH10B"  
/note="Organ: pooled colon, kidney, stomach; Vector:  
pCMV-SPORT6; Site\_1: NotI; Site\_2: EcoRV (destroyed); RNA  
source anonymous pool of 3 colons, age 26 yo male, 49 yo  
female, 71 yo male colon; 46 yo male kidney, and pool of 2  
stomachs, 62 yo male and 70 yo female. Library is  
oligo-dT primed and directionally cloned (EcoRV site is  
destroyed upon cloning). Average insert size 1.4 kb,  
insert size range 1-3 kb. Library is normalized and  
enriched for full-length clones and was constructed by C.  
Gruber (Invitrogen). Research Genetics tracking code  
023. Note: this is a NIH\_MGC Library."  
BASE COUNT 146 a 283 c 269 g 154 t  
ORIGIN  
Query Match 9.3%; Score 175; DB 13; Length 852;  
Best Local Similarity 99.6%; Pred. No. 7.3e-49;  
Matches 225; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 102 CCGTACGGGCCCCAACAGACCCCATGCTGCATCCAGAGACCTCCCTGGCCGGGGGATCTC 161  
|||||  
Db 237 CCGTACGGGCCCCAACAGACCCCATGCTGCATCCAGAGACCTCCCTGGCCGGGGATCTC 296  
|||||  
Qy 162 CTGGCTGTGCTCCTGGCCCTCCTTGGCACACCTGGGAGAGGTGGGCCACCCAGCTG 221  
|||||  
Db 297 CTGGCTGTGCTCCTGGCCCTCCTTGGCACACCTGGGAGAGGTGGGCCACCCAGCTG 356  
|||||  
Qy 222 CAGGAGCAGGCTCCGATGGCCGGAGCCCTGACAGAGAGAGAGTTTCTGCTCTCTCC 281  
|||||  
Db 357 CAGGAGCAGGCTCCGATGGCCGGAGCCCTGACAGAGAGAGAGTTTCTGCTCTCTCC 416  
|||||  
Qy 282 CTGCACACCGCCCTGGCGAGCTGGTCCAGCCCCCTGGCGCTGACA 327

|||||  
Db 124 GGGCAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 65  
|||||  
Qy 1694 GCGCTTCGCTGCTTTTATGGGAGAGTGGCTTCATTTAGATGGCGGAGGAGGACA 1753  
|||||  
Db 64 GTCCTTCGCTGCTTTTATGGGAGAGATGGGCTTCAATTAGATGGCGGAGGAGGACA 5  
|||||  
Qy 1754 CCGC 1757  
|||||  
Db 4 CCGC 1  
|||||  
RESULT 33  
BI517774 928 bp mRNA linear EST 29-AUG-2001  
LOCUS 603042018F1 NIH\_MGC\_116 Homo sapiens cdna clone IMAGE:5182397 5',  
DEFINITION mRNA sequence.  
ACCESSION BI517774  
VERSION BI517774.1 GI:15342566  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 928)  
AUTHORS NIH-MGC http://mgc.nci.nih.gov/  
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
JOURNAL Unpublished (1999)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: cgabbs-r@mail.nih.gov  
Tissue Procurement: Life Technologies, Inc.  
CDNA Library Preparation: Life Technologies, Inc.  
DNA Sequencing by: Incyte Genomics, Inc.  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
http://image.llnl.gov  
Plate: LLML1455 row: c column: 06  
High quality sequence stop: 860.  
FEATURES  
Location/Qualifiers  
source  
1..928  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:5182397"  
/clone\_lib="NIH\_MGC\_116"  
/lab\_host="DH10B"  
/note="Organ: pooled colon, kidney, stomach; Vector:  
pCMV-SPORT6; Site\_1: NotI; Site\_2: EcoRV (destroyed); RNA  
source anonymous pool of 3 colons, age 26 yo male, 49 yo  
female, 71 yo male colon; 46 yo male kidney, and pool of 2  
stomachs, 62 yo male and 70 yo female. Library is  
oligo-dT primed and directionally cloned (EcoRV site is  
destroyed upon cloning). Average insert size 1.4 kb,  
insert size range 1-3 kb. Library is normalized and  
enriched for full-length clones and was constructed by C.  
Gruber (Invitrogen). Research Genetics tracking code  
023. Note: this is a NIH\_MGC Library."  
BASE COUNT 169 a 293 c 307 g 159 t  
ORIGIN  
Query Match 10.0%; Score 187; DB 13; Length 928;  
Best Local Similarity 99.6%; Pred. No. 6.7e-53;  
Matches 237; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 124 TGCTGCATCCAGAGACCTCCCTGGCCGGGGGATCTCCTGCTGCTCTGCGCCCTCC 183  
|||||  
Db 63 TGCTGCATCCAGAGACCTCCCTGGCCGGGGGATCTCCTGCTGCTCTGCGCCCTCC 122  
|||||  
Qy 184 TTGGCACCACCTGGGAGAGGTGGCCACCCAGCTGCAGGAGGAGGCTCCGATGGCGG 243  
|||||  
Db 123 TTGGCACCACCTGGGAGAGGTGGCCACCCAGCTGCAGGAGGAGGCTCCGATGGCGG 182  
|||||  
Qy 244 GAGCCCTGAACAGGAGGAGAGTTTCTGCTCTCTCCCTGCACACCGCTGGCGAGCT 303



DKFZp34F2413 5', mRNA sequence.  
 AL040183  
 AL040183.1 GI:5409148  
 EST.  
 SOURCE  
 human.  
 ORGANISM  
 Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 1 (bases 1 to 704)  
 Koehrer, K., Beyer, A., Mewes, H.W., Gassenhuber, J. and Wiemann, S.  
 EST (Koehrer, et al.)  
 Unpublished (1999)  
 Contact: Koehrer K  
 MIPS  
 Am Klopferstritz 18a D-82152 Martinsried, Germany  
 This is the 5' sequence of the clone insert  
 Clone from S. Wiemann, Molecular Genome Analysis, German Cancer  
 Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;  
 sequenced by BMFZ (Biomedical Research Center at the Charite,  
 Berlin/Germany) within the cDNA sequencing consortium of the German  
 Genome Project.  
 si sequence also available.  
 This clone (DKFZp34F2413) is available at the RZPD in Berlin.  
 Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059  
 Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.

```

FEATURES
source
Location/Qualifiers
1. 704
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="DKF2p434F2413"
/clone_lib="434 (synonym: htes3)"
/tissue_type="testis"
/dev_stage="adult"
/lab_host="DH10B"
/notes="Vector: pSport1; Site_1: NotI; Site_2: SalI"
150 a 207 c 207 g 139 t 1 others
PAGE COUNT

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```

source
i. .704
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="DKF2p434F2413"
/clone_lib="434 (synonym: htes3)"
/tissue_type="testis"
/dev_stage="adult"
/lab_host="DH10B"
/note="Vector: pSPort1; Site_1: NotI; Site_2: SalI"
150 a 207 c 207 g 139 t 1 others_
BASE COUNT
ORIGIN
Query Match 7.7% Score 145; DB 9; Length 704;
Best Local Similarity 100.0%; Pred. No. 8.9e-39;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Caps 0;

```

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/dev_stage="adult"
/lab_host="DH10B"
/note="vector: pSport1; site_1: NotI; site_2: SalI"
150 a 207 c 207 g 139 t 1 others

BASE COUNT
ORIGIN

Query Match 7.7%; Score 145; DB 9; Length 704;
Best Local Similarity 100.0%; Pred. NO. 8.9e-39;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Caps 0;

```

```

BASE COUNT 150 a 207 c 207 g 139 t 1 others
ORIGIN
Query Match 7.7%; Score 145; DB 9; Length 704;
Best Local Similarity 100.0%; Pred. No. 8.9e-39;
Matches 145. Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

Query Match 7.7%; Score 145; DB 9; Length 704;  
Best Local Similarity 100.0%; Pred. No. 8.9e-39;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Caps 0;

```

Best local alignment: 100.00%
Matches 145. Conservative 0: Mismatches 0: Indels 0: Gaps 0:

```

184 GGAGCGTCAACATCAGCACTGCCACTGCCACTGTCCCCCTGGCTACCGGGCAGATAC 243

900 TGCCAACTGAGGTGCAGCTGTGTGCACGGCCGGTTCGGGAGGAGGAGTGCTCG 959

244 TGCCTACATCACCTCCAGCCTCAGCTGTGTGTACGGCCGGTTCGGGAGGAGGAGTGCTCG 303

|    |     |  |     |
|----|-----|--|-----|
| DB | 184 | GGAGCGTCTCAACATCAGCAACTGCGCATGGCACATGTCCTCCCTTGGCTACACGGGCGGATAC | 243 |
| QY | 900 | TGCCAAGTGAGGTGCACCTTCGACGTGTGCACGGCGGTTCCGGGAGGAGGAGTGCTCG       | 959 |
| +  | 744 | TGCGCATCTGACCGTCGACGCTGCTACGCTGTGTCACGCGGTTCCGGGAGGAGGAGTGCTCG   | 303 |

900 TGCCAAAGTGAAGGTCAGACCTGCAGATGTGGACAGCCCCCGGTTCCGGGAGCAAGAGCAGGCTCG 303

D4 TCCCACACACACCCTACAGCCCTGCACGCTGTGCACGCCCGCTTCCGGGAGAGAGGAGTGCTCG 303

[illegible]

Qy 960 TGGCTCTGTGACATCGGCTACGGGG 984  
|||||

db 304 TCGGTCTGTGACATCGGCTACGGGG 328

RESULT 38

| AI245843/C | AI245843 | 229 bp | mRNA | linear | EST 28-JAN-1999 |
|------------|----------|--------|------|--------|-----------------|
| LOCUS      |          |        |      |        |                 |

LOCUS 81245043  
DEFINITION qk32g01.x1 NCI\_CGAP\_kid3 Homo sapiens cDNA clone IMAGE:1870704 3',

ACCESSION AT245843

AI245843.1 GI:3841240

**KEYWORDS**  
EST.  
SOURCE  
human

|          |              |
|----------|--------------|
| SOURCE   | HUMAN.       |
| ORGANISM | Homo sapiens |

Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE  
1 (bases 1 to 229)

**AUTHORS** NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
**EDITOR** National Cancer Institute, Cancer Genome Anatomy Project (CGAP);

**Tumor Gene Index**

JOURNAL  
Unpublished (1997)  
Contact: Robert Strausberg Ph.D.

COMMENT: CONTACT: ROBERT STRAUSSBERG, FBI.D.

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
 Tel: 314 286 1800  
 Fax: 314 286 1810  
 Email: est@watson.wustl.edu  
 This clone is available royalty-free through LLNL; contact the  
 IMAGE Consortium (info@image.llnl.gov) for further information.  
 Insert Length: 698 Std Error: 0.00  
 Seq primer: mob.REGA+ET.

# FEATURES

Location/Qualifiers

1..411

/organism="Homo sapiens"

/db\_xref="GDB:1271568"

/db\_xref="taxon:9606"

/clone="IMAGE:346193"

/clone\_lib="Soares\_fetal\_heart\_NbHH19W"

/sex="unknown"

/dev\_stage="19 weeks"

/lab\_host="DH10B (ampicillin resistant)"

/note="Organ: heart; Vector: p773D (Pharmacia) with a modified polylinker; Site\_1: Not I; Site\_2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' TGTTACCAATCTGAAGTGGGAGCGCGCATCTTTTCTTTTCTTTT 3'] double-stranded cDNA was size selected, ligated to Eco RI adapters (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified p773 vector (Pharmacia). Library went through one round of normalization to a Cot = 5. Library constructed by M.Patima Bonaldo. This library was constructed from the same fetus as the fetal lung library, Soares fetal lung NbHL19W."

BASE COUNT 88 a 130 c 108 g 82 t 3 others

Query Match 6.6%; Score 123; DB 14; Length 411;

Best Local Similarity 100.0%; Pred. No. 2.9e-31;

Matches 123; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1359 GGGTTTGGCAACTCGTGGAGCTCAGGCTTCAGCTGCTTCACTGCTTCACTGGAACGACGAGCGC 1418

Db 128 GGGTTTGGCAACTCGTGGAGCTCAGGCTTCAGCTGCTTCACTGGAACGACGAGCGC 187

QY 1419 TGCAAAACCCGAAACCGTTACATCTGCGAGTTTGCACGAGGACATCTCCGGTGGGCG 1478

Db 188 TGCAAAACCCGAAACCGTTACATCTGCGAGTTTGCACGAGGACATCTCCGGTGGGCG 247

QY 1479 CCA 1481

Db 248 CCA 250

RESULT 40

BI759353

LOCUS

DEFINITION

603043013F1 NTH\_MGC\_116 Homo sapiens cDNA clone IMAGE:5183330 5',

mRNA sequence.

ACCESSION

BI759353

VERSION

BI759353.1 GI:15750931

KEYWORDS

EST.

SOURCE

human.

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

1 (bases 1 to 916)

AUTHORS

NIH-MGC http://mgc.nci.nih.gov/.

TITLE

National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL

Unpublished (1999)

COMMENT

Contact: Robert Strausberg, Ph.D.

Email: cgabbs-remail.nih.gov

Tissue Procurement: Life Technologies, Inc.

cDNA Library Preparation: Life Technologies, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov

Plate: L1AM1457 row: j column: 03

High quality sequence stop: 723.

## FEATURES

source

Location/Qualifiers

1..916

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone="IMAGE:5183330"

/clone\_lib="NIH\_MGC\_116"

/lab\_host="DH10B"

/note="Organ: pooled colon, kidney, stomach; Vector:

PCMV-SPOR16; Site\_1: NotI; Site\_2: EcoRV (destroyed); RNA

source anonymous pool of 3 colons, age 26 yo male, 49 yo

female, 71 yo male colon; 46 yo male kidney, and pool of 2

stomachs, 62 yo male and 70 yo female. Library is

oligo-dT primed and directionally cloned (EcoRV site is

destroyed upon cloning). Average insert size 1.4 kb,

insert size range 1-3 kb. Library is normalized and

enriched for full-length clones and was constructed by C.

Gruber (Invitrogen). Research Genetics tracking code

023. Note: this is a NIH\_MGC Library."

BASE COUNT 153 a 306 c 278 g 178 t 1 Others

ORIGIN

Query Match 6.0%; Score 113; DB 13; Length 916;

Best Local Similarity 99.4%; Pred. No. 3.8e-28;

Matches 163; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTCTTTTGTCCACAGCCCGCTGACTCTCTGGAGATTGTGAATAGCTCCATCCAGCCTG 60

Db 21 CTCTTTTGTCCACAGCCCGCTGACTCTCTGGAGATTGTGAATAGCTCCATCCAGCCTG 80

QY 61 AGAAACAAGCCGGTGGCTGAGCAGGCTGTGCACGAGCACCTGACGGGCCCAACAGAC 120

Db 81 AGAAACAAGCCGGTGGCTGAGCAGGCTGTGCACGAGCACCTGACGGGCCCAACAGAC 140

QY 121 CCATGCTGCATCAGAGACCTCCCTGCGCGGGGCATCTCCTG 164

Db 141 CCATGCTGCATCAGAGACCTCCCTGCGCGGGGCATCTCCTG 184

RESULT 41

BI759735

LOCUS

DEFINITION

603045609F1 NTH\_MGC\_116 Homo sapiens cDNA clone IMAGE:5185803 5',

mRNA sequence.

ACCESSION

BI759735

VERSION

BI759735.1 GI:15751313

KEYWORDS

EST.

SOURCE

human.

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

1 (bases 1 to 457)

AUTHORS

NIH-MGC http://mgc.nci.nih.gov/.

TITLE

National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL

Unpublished (1999)

COMMENT

Contact: Robert Strausberg, Ph.D.

Email: cgabbs-remail.nih.gov

Tissue Procurement: Life Technologies, Inc.

cDNA Library Preparation: Life Technologies, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov

Plate: L1AM1464 row: a column: 04

High quality sequence stop: 453.

## FEATURES

source

Location/Qualifiers

1..457

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone="IMAGE:5185803"  
 /clone\_lib="NIH\_MGC\_116"  
 /lab\_host="DH10B"  
 /note="Organ: pooled colon, kidney, stomach; Vector: pCMV-SPORT6; Site\_1: NotI; Site\_2: EcoRV (destroyed); RNA source anonymous pool of 3 colons, age 26 yo male, 49 yo female, 71 yo male colon; 46 yo male kidney, and pool of 2 stomachs, 62 yo male and 70 yo female. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.4 kb, insert size range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 023. Note: this is a NIH\_MGC Library."  
 80 a 163 c 139 g 75 t

BASE COUNT 80 a 163 c 139 g 75 t  
 ORIGIN  
 Query Match 5.8%; Score 109; DB 13; Length 457;  
 Best Local Similarity 99.4%; Pred. No. 1.3e-26;  
 Matches 159; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 1 CTCTTTTGTCCACGAGCCAGCTGACTCTCTGGAGATTGTGAATAGCTCCATCCAGCGCTG 60  
 Db 142 CTTCTTTGTCCACGAGCCAGCTGACTCTCTGGAGATTGTGAATAGCTCCATCCAGCGCTG 201  
 QY 61 AGAACAAGCCGGTGGCTGAGCAGCTGTGCACGAGCAGCTGACGGGCGCCACAGAC 120  
 Db 202 AGAACAAGCCGGTGGCTGAGCAGCTGTGCACGAGCAGCTGACGGGCGCCACAGAC 261  
 QY 121 CCATGCTGCATCCAGAGACCTCCCTCGCGGGGGCATCT 160  
 Db 262 CCATGCTGCATCCAGAGACCTCCCTCGCGGGGGCATCT 301

RESULT 42  
 AI522123/c  
 LOCUS t178601.x1 NCI\_CGAP\_Kid11 Homo sapiens cDNA clone IMAGE:2138136 3',  
 DEFINITION mRNA sequence.  
 ACCESSION AI522123  
 VERSION AI522123.1 GI:4436258  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 1 (bases 1 to 425)  
 NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 Tumor Gene Index  
 Unpublished (1997)  
 Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-r@mail.nih.gov  
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.  
 CDNA Library Preparation: M. Bento Soares, Ph.D.  
 CDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:  
 www.bio.llnl.gov/bbrp/image/image.html  
 Insert Length: 519 Std Error: 0.00  
 Seq primer: -40UP from Gibco.  
 Location/Qualifiers  
 1. 425  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:2138136"  
 /clone\_lib="NCI\_CGAP\_Kid11"  
 /lab\_host="DH10B"  
 /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site\_1: Not I; Site\_2: Eco RI; a Plasmid DNA from the normalized library NCI\_CGAP\_Kid3 was

FEATURES  
 source  
 1. 425  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:2138136"  
 /clone\_lib="NCI\_CGAP\_Kid11"  
 /lab\_host="DH10B"  
 /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site\_1: Not I; Site\_2: Eco RI; a Plasmid DNA from the normalized library NCI\_CGAP\_Kid3 was

prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-1323911, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo.  
 91 a 117 c 106 g 111 t

BASE COUNT 91 a 117 c 106 g 111 t  
 ORIGIN  
 Query Match 5.2%; Score 97; DB 9; Length 425;  
 Best Local Similarity 100.0%; Pred. No. 1.4e-22;  
 Matches 97; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1742 AAGGAGGACACCGCAGTGGTCCAAAAGGTCTCTTCCACCTGCCAGACCCCT 1801  
 Db 388 AAGGAGGACACCGCAGTGGTCCAAAAGGTCTCTTCCACCTGCCAGACCCCT 329  
 QY 1802 GTGGGCGAGCGAGCTTCCCTGTGGCATGAACCCAC 1838  
 Db 328 GTGGGCGAGCGAGCTTCCCTGTGGCATGAACCCAC 292

RESULT 43  
 AI150446/c  
 LOCUS gf41a03.x1 Soares\_testis\_NHT Homo sapiens cDNA clone IMAGE:1752556  
 DEFINITION 3', mRNA sequence.  
 ACCESSION AI150446  
 VERSION AI150446.1 GI:3678915  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 1 (bases 1 to 460)  
 NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 Tumor Gene Index  
 Unpublished (1997)  
 Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-r@mail.nih.gov  
 CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo, Ph.D.  
 CDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:  
 www.bio.llnl.gov/bbrp/image/image.html  
 Insert Length: 732 Std Error: 0.00  
 Seq primer: -40ml3 fwd. Et from Amersham  
 High quality sequence stop: 458.  
 Location/Qualifiers  
 1. 460  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:1752556"  
 /clone\_lib="Soares\_testis\_NHT"  
 /sex="male"  
 /lab\_host="DH10B"  
 /note="Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site\_1: Not I; Site\_2: Eco RI; 1st strand cDNA was prepared from mRNA obtained from Clontech Laboratories, Inc., and primed with a Not I - oligo(dT) primer [5', TGTTACCAATCTGAAGTGGGAGCGGCCCAATTTTTTTTTTTTTTTT 3']. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization to Cot5, and was constructed by Bento Soares and M. Fatima Bonaldo."  
 88 a 130 c 127 g 115 t

BASE COUNT 88 a 130 c 127 g 115 t  
 ORIGIN  
 Query Match 5.2%; Score 97; DB 9; Length 425;  
 Best Local Similarity 100.0%; Pred. No. 1.4e-22;  
 Matches 97; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1742 AAGGAGGACACCGCAGTGGTCCAAAAGGTCTCTTCCACCTGCCAGACCCCT 1801  
 Db 388 AAGGAGGACACCGCAGTGGTCCAAAAGGTCTCTTCCACCTGCCAGACCCCT 329  
 QY 1802 GTGGGCGAGCGAGCTTCCCTGTGGCATGAACCCAC 1838  
 Db 328 GTGGGCGAGCGAGCTTCCCTGTGGCATGAACCCAC 292

RESULT 43  
 AI150446/c  
 LOCUS gf41a03.x1 Soares\_testis\_NHT Homo sapiens cDNA clone IMAGE:1752556  
 DEFINITION 3', mRNA sequence.  
 ACCESSION AI150446  
 VERSION AI150446.1 GI:3678915  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 1 (bases 1 to 460)  
 NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 Tumor Gene Index  
 Unpublished (1997)  
 Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-r@mail.nih.gov  
 CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo, Ph.D.  
 CDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:  
 www.bio.llnl.gov/bbrp/image/image.html  
 Insert Length: 732 Std Error: 0.00  
 Seq primer: -40ml3 fwd. Et from Amersham  
 High quality sequence stop: 458.  
 Location/Qualifiers  
 1. 460  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:1752556"  
 /clone\_lib="Soares\_testis\_NHT"  
 /sex="male"  
 /lab\_host="DH10B"  
 /note="Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site\_1: Not I; Site\_2: Eco RI; 1st strand cDNA was prepared from mRNA obtained from Clontech Laboratories, Inc., and primed with a Not I - oligo(dT) primer [5', TGTTACCAATCTGAAGTGGGAGCGGCCCAATTTTTTTTTTTTTTTT 3']. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization to Cot5, and was constructed by Bento Soares and M. Fatima Bonaldo."  
 88 a 130 c 127 g 115 t

|   |      |  |      |  |  |
|---|------|--|------|--|--|
| Query Match   |      |  |      |  |  |
| Best Local Similarity 5.1%; Score 95; DB 9; Length 460;   |      |  |      |  |  |
| Matches 195; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  |      |  |      |  |  |
| QY  | 1422 | AAACCCGAAAACCGTTTACATCTGCCAGTTTGCCACGAGGACACATCTCCCGGTGGGGCCCA | 1481 |  |  |
| DB  | 460  | AAACCCGAAAACCGTTTACATCTGCCAGTTTGCCACGAGGACACATCTCCCGGTGGGGCCCA | 401  |  |  |
| QY  | 1482 | GGGTCTCAGGCGCTGACCACATGGTCCCTCGCTCGCTGGGAGCACCGGCTTCGTCTTA     | 1541 |  |  |
| DB  | 400  | GGGTCTCAGGCGCTGACCACATGGTCCCTCGCTCGCTGGGAGCACCGGCTTCGTCTTA     | 341  |  |  |
| QY  | 1542 | CCTGCTGCCACCTGCTCTGGACAAGGCCAGGTTAAGACACATGCCTCATGTCCAAA       | 1601 |  |  |
| DB  | 340  | CCTGCTGCCACCTGCTCTGGACAAGGCCAGGTTAAGACACATGCCTCATGTCCAAA       | 281  |  |  |
| QY  | 1602 | GAGTCTCAGACCTTGC   | 1618 |  |  |
| DB  | 280  | GAGTCTCAGACCTTGC   | 264  |  |  |
| <hr/>   |      |  |      |  |  |
| RESULT 44   |      |  |      |  |  |
| BF527554  |      |  |      |  |  |
| LOCUS   |      |  |      |  |  |
| DEFINITION  |      |  |      |  |  |
| 602040477F1 NCI_CGAP_Brn67 Homo sapiens cdna clone IMAGE:4178394  |      |  |      |  |  |
| 5'', mRNA sequence.   |      |  |      |  |  |
| ACCESSION   |      |  |      |  |  |
| BF527554  |      |  |      |  |  |
| VERSION   |      |  |      |  |  |
| BF527554.1 GI:11614917  |      |  |      |  |  |
| KEYWORDS  |      |  |      |  |  |
| EST.  |      |  |      |  |  |
| SOURCE  |      |  |      |  |  |
| human.  |      |  |      |  |  |
| ORGANISM  |      |  |      |  |  |
| Homo sapiens  |      |  |      |  |  |
| Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;   |      |  |      |  |  |
| Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  |      |  |      |  |  |
| NIH-MGC http://mgi.nci.nih.gov/.  |      |  |      |  |  |
| National Institutes of Health, Mammalian Gene Collection (MGC)  |      |  |      |  |  |
| Unpublished (1999)  |      |  |      |  |  |
| REFERENCE   |      |  |      |  |  |
| AUTHORS   |      |  |      |  |  |
| TITLE   |      |  |      |  |  |
| COMMENT   |      |  |      |  |  |
| Contact: Robert Strausberg, Ph.D.<br>Email: cgapbs-r@mail.nih.gov<br>Tissue Procurement: David N. Louis, M.D.<br>cdna Library Preparation: Life Technologies, Inc.<br>DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)<br>Clone distribution: Incyte Genomics, Inc.<br>found through the I.M.A.G.E. Consortium information can be<br>http://image.llnl.gov<br>Plate: LLAM9486 row: i column: 19<br>High quality sequence stop: 721.<br>Location/Qualifiers<br>1..756<br>/organism="Homo sapiens"<br>/db_xref="taxon:9606"<br>/clone="IMAGE:4178394"<br>/clone.lib="NCI_CGAP_Brn67"<br>/tissue_type="anaplastic oligodendroglioma with lp/19q loss"<br>/lab_host="DH10B (TI phage-resistant)"<br>/note="Organ: brain; Vector: pCMV-SPORT6; Site_1: NotI;<br>Site_2: SalI; Cloned unidirectionally. Primer: Oligo dT.<br>Average insert size 2.3 kb. Constructed by Life<br>Technologies. Note: this is a NCI_CGAP Library." |      |  |      |  |  |
| <hr/>   |      |  |      |  |  |
| BASE COUNT  |      |  |      |  |  |
| ORIGIN  |      |  |      |  |  |
| 164 a 213 c 248 g 131 t   |      |  |      |  |  |
| <hr/>   |      |  |      |  |  |
| Query Match   |      |  |      |  |  |
| Best Local Similarity 3.9%; Score 73; DB 12; Length 756;  |      |  |      |  |  |
| Matches 73; Conservative 0; Mismatches 0; Indels 0; Gaps 0;   |      |  |      |  |  |
| QY  | 1619 | ACAATGCCAGAAGTTGGCCACAGACGACGAGGCCAGTCGAGGCCCGGAGTAGTG         | 1678 |  |  |
| DB  | 598  | ACAATGCCAGAAGTTGGCCACAGACGACGAGGCCAGTCGAGGCCCGGAGTAGTG         | 657  |  |  |
| QY  | 1679 | TTAGAAGAAGCTG  | 1691 |  |  |

KEYWORDS EST.  
SOURCE pig.  
ORGANISM Sus scrofa

REFERENCE  
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus. 1 (bases 1 to 339)  
Fahrenkrug,S.C., Freking,B.A., Rohrer,G.A., Smith,T.P.L., Casas,E., Stone,R.T., Heaton,M.P., Grosse,W.M., Bennett,G.A., Laegreid,W.W. and Keele,J.W.

TITLE Design and use of two pooled tissue normalized cDNA libraries for EST discovery in swine

JOURNAL Unpublished (2000)  
COMMENT Contact: Smith TPL  
USDA, ARS, US Meat Animal Research Center  
PO Box 166, Clay Center, NE 68933-0166, USA  
Tel: 402 762 4366  
Fax: 402 762 4390  
Email: smith@email.marc.usda.gov

Single pass sequencing. Bases called and alt\_trimmed with phred v0.980904.e. Vector identified by cross\_match with the -minscore 18 and -minmatch 12 options.

PCR Primers  
FORWARD: AGGAACAGCTATGACCAT  
BACKWARD: GTTTCCAGTCACGACG

Seq primer: ATTTAGGTGACACTATAG.  
Location/Qualifiers

FEATURES  
source  
1..339  
/organism="Sus scrofa"  
/db\_xref="taxon:9823"  
/clone\_lib="MARC lPig"  
/tissue\_type="pooled"  
/lab\_host="DH10B"  
/note="Vector: pCMV SPORT6; Site\_1: NotI; Site\_2: SalI;  
Library made from pooled tissue from day 11, 13, 15, 20,  
and 30 embryos."

BASE COUNT 67 a 100 c 109 g 63 t

ORIGIN

Query Match 1.9%; Score 35; DB 12; Length 339;  
Best Local Similarity 100.0%; Pred. NO. 0.087;  
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1029 GACCTGAGGATCGAGGAGCTGCTCATGCTGTC 1063  
|||||  
Db 251 GACCTGAGGATCGAGGAGCTGCTCATGCTGTC 285  
|||||

RESULT 47  
BF198258 429 bp mRNA linear EST 03-NOV-2000

LOCUS BF198258  
DEFINITION 248012 MARC 2Pig Sus scrofa cDNA 5', mRNA sequence.  
ACCESSION BF198258  
VERSION BF198258.1 GI:11089145  
KEYWORDS EST.  
SOURCE pig.

ORGANISM Sus scrofa  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus. 1 (bases 1 to 429)  
Fahrenkrug,S.C., Freking,B.A., Rohrer,G.A., Smith,T.P.L., Casas,E., Stone,R.T., Heaton,M.P., Grosse,W.M., Bennett,G.A., Laegreid,W.W. and Keele,J.W.

TITLE Design and use of two pooled tissue normalized cDNA libraries for EST discovery in swine

JOURNAL Unpublished (2000)  
COMMENT Contact: Smith TPL  
USDA, ARS, US Meat Animal Research Center  
PO Box 166, Clay Center, NE 68933-0166, USA  
Tel: 402 762 4366  
Fax: 402 762 4390  
Email: smith@email.marc.usda.gov

Single pass sequencing. Bases called and alt\_trimmed with phred v0.980904.e. Vector identified by cross\_match with the -minscore 18 and -minmatch 12 options.

PCR Primers  
FORWARD: AGGAACAGCTATGACCAT  
BACKWARD: GTTTCCAGTCACGACG

Seq primer: ATTTAGGTGACACTATAG.  
Location/Qualifiers

FEATURES  
source  
1..339  
/organism="Sus scrofa"  
/db\_xref="taxon:9823"  
/clone\_lib="MARC lPig"  
/tissue\_type="pooled"  
/lab\_host="DH10B"  
/note="Vector: pCMV SPORT6; Site\_1: NotI; Site\_2: SalI;  
Library made from pooled tissue from day 11, 13, 15, 20,  
and 30 embryos."

BASE COUNT 67 a 100 c 109 g 63 t

ORIGIN

Query Match 1.9%; Score 35; DB 12; Length 339;  
Best Local Similarity 100.0%; Pred. NO. 0.087;  
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1029 GACCTGAGGATCGAGGAGCTGCTCATGCTGTC 1063  
|||||  
Db 251 GACCTGAGGATCGAGGAGCTGCTCATGCTGTC 285  
|||||

v0.980904.e. Vector identified by cross\_match with the -minscore 18 and -minmatch 12 options.

#### PCR Primers

FORWARD: AGGAACAGCTATGACCAT

BACKWARD: GTTTCCAGTCACGACG

Plate: 78 row: B column: 9

Seq primer: ATTTAGGTGACACTATAG.

Location/Qualifiers

1..429

/organism="Sus scrofa"

/db\_xref="taxon:9823"

/clone\_lib="MARC 2Pig"

/tissue\_type="pooled"

/lab\_host="DH10B"

/note="Vector: pCMV SPORT6; Site\_1: NotI; Site\_2: SalI;  
Library made from pooled tissue from testis, ovary,  
endometrium, hypothalamus, pituitary, and placenta."

BASE COUNT 97 a 125 c 122 g 85 t

#### ORIGIN

Query Match 1.8%; Score 34; DB 12; Length 429;

Best Local Similarity 100.0%; Pred. NO. 0.16;

Matches 34; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1135 AGAGCCAGAAAGTCAGGACATCTCGCCTTCTA 1168  
|||||

Db 176 AGAGCCAGAAAGTCAGGACATCTCGCCTTCTA 209  
|||||

#### RESULT 48

BM481198

LOCUS BM481198

DEFINITION 53084 MARC 4BOV Bos taurus cDNA 5', mRNA sequence.

ACCESSION BM481198

VERSION BM481198.1 GI:18531526

KEYWORDS EST.

SOURCE cow.

ORGANISM Bos taurus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;  
Bovidae; Bovinae; Bos.

1 (bases 1 to 263)

Smith,T.P.L., Grosse,W.M., Freking,B.A., Roberts,A.J., Stone,R.T.,

Casas,E., Wray,J.E., White,J., Cho,J., Fahrenkrug,S.C., Bennett

,G.L., Heaton,M.P., Laegreid,W., Rohrer,G.A., Chitko-McKown,C.G.,

Pertea,G., Holt,I., Karamycheva,S., Liang,F., Quackenbush,J. and

Keele,J.W.

Sequence evaluation of four pooled-tissue normalized bovine cDNA  
libraries and construction of a gene index for cattle

Genome Res. 11 (4), 626-630 (2001)

21180013

Contact: Smith TPL

USDA, ARS, US Meat Animal Research Center

PO Box 166, Clay Center, NE 68933-0166, USA

Tel: 402 762 4366

Fax: 402 762 4390

Email: smith@email.marc.usda.gov

Single pass sequencing. Bases called and alt\_trimmed with phred  
v0.980904.e. Vector identified by cross\_match with the -minscore 18  
and -minmatch 12 options.

PCR Primers

FORWARD: AGGAACAGCTATGACCAT

BACKWARD: GTTTCCAGTCACGACG

Plate: 3 row: L column: 9

Seq primer: ATTTAGGTGACACTATAG.

Location/Qualifiers

1..263

/organism="Bos taurus"

/db\_xref="taxon:9913"

/clone\_lib="MARC 4BOV"

/tissue\_type="pooled"

/lab\_host="DH10B"

/note="Vector: pCMV SPORT6; Site\_1: NotI; Site\_2: SalI;

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Library made from pooled tissue from day 20 and day 40
embryos."
BASE COUNT      45 a      72 c      98 g      47 t      1 others
ORIGIN

Query Match
Best Local Similarity 1.7%; Score 32; DB 13; Length 263;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1170 CTGGCGCCCTGGAGACCACCAACGAGTGAC 1201
|||||
Db 73 CTGGCGCCCTGGAGACCACCAACGAGTGAC 104

RESULT 49
AI628809/c
LOCUS
DEFINITION      241 bp      mRNA      linear      EST 23-APR-1999
                  ty72g03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2284660 3',
                  mRNA sequence.
ACCESSION      AI628809
VERSION
KEYWORDS
SOURCE
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 241)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
JOURNAL
COMMENT      Contact: Robert Strausberg, Ph.D.
                  Email: cgabbs-r@mail.nih.gov
                  Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
                  Emmert-Buck, M.D., Ph.D.
                  cDNA Library Preparation: M. Bento Soares, Ph.D.
                  cDNA Library Arrayed by: Greg Lennon, Ph.D.
                  DNA Sequencing by: Washington University Genome Sequencing Center
                  Clone distribution: NCI-CGAP clone distribution information can be
                  found through the I.M.A.G.E. Consortium/LLNL at:
                  www-bio.llnl.gov/bbrp/image/image.html
                  Seq primer: -40UP from Gibco.
                  Location/Qualifiers
                  1..241
                  /organism="Homo sapiens"
                  /db_xref="taxon:9606"
                  /clone="IMAGE:2284660"
                  /clone_lib="NCI_CGAP_Kid11"
                  /lab_host="DH10B"
                  /note="Organ: Kidney; Vector: pT7T3D-Pac (Pharmacia) with
                  a modified polylinker; Site_1: Not I; Site_2: Eco RI;
                  plasmid DNA from the normalized library NCI_CGAP_Kid3 was
                  prepared, and ss circles were made in vitro. Following HAP
                  purification, this DNA was used as tracer in a subtractive
                  hybridization reaction. The driver was PCR-amplified cDNAs
                  from a pool of 5,000 clones made from the same library
                  (cloneIDs 1322376-1323911, 1456007-1456775, and
                  1500552-1502855). Subtraction by Bento Soares and M.
                  Fatima Ronaldo."
BASE COUNT      48 a      56 c      48 g      88 t      1 others
ORIGIN

Query Match
Best Local Similarity 1.7%; Score 31; DB 9; Length 241;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1689 CTGGGCGCCCTGCCTGCTTTTGTATGGAA 1719
|||||
Db 209 CTGGGCGCCCTGCCTGCTTTTGTATGGAA 179

RESULT 50
BI518200/c
LOCUS
DEFINITION      911 bp      mRNA      linear      EST 29-AUG-2001
                  603042018T1 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:5182397 3',
                  mRNA sequence.
ACCESSION      BI518200
VERSION
KEYWORDS
SOURCE
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 911)
NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
JOURNAL
COMMENT      Contact: Robert Strausberg, Ph.D.
                  Email: cgabbs-r@mail.nih.gov
                  Tissue Procurement: Life Technologies, Inc.
                  cDNA Library Preparation: Life Technologies, Inc.
                  cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
                  DNA Sequencing by: Incyte Genomics, Inc.
                  Clone distribution: MGC clone distribution information can be
                  found through the I.M.A.G.E. Consortium/LLNL at:
                  http://image.llnl.gov
                  Plate: LLAM11455 row: c column: 06
                  High quality sequence start: 37
                  High quality sequence stop: 202.
                  Location/Qualifiers
                  1..911
                  /organism="Homo sapiens"
                  /db_xref="taxon:9606"
                  /clone="IMAGE:5182397"
                  /clone_lib="NIH_MGC_116"
                  /lab_host="DH10B"
                  /note="Organ: Pooled colon, kidney, stomach; Vector:
                  PCMV-SPORT6; Site_1: NotI; Site_2: EcoRV (destroyed); RNA
                  source anonymous pool of 3 colons, age 26 yo male, 49 yo
                  female, 71 yo male colon; 46 yo male kidney, and pool of 2
                  stomachs, 62 yo male and 70 yo female. Library is
                  oligo-dT primed and directionally cloned (EcoRV site is
                  destroyed upon cloning). Average insert size 1.4 kb,
                  insert size range 1-3 kb. Library is normalized and
                  enriched for full-length clones and was constructed by C.
                  Gruber (Invitrogen). Research Genetics tracking code
                  023. Note: this is a NIH_MGC Library."
BASE COUNT      144 a      288 c      259 g      220 t
ORIGIN

Query Match
Best Local Similarity 1.7%; Score 31; DB 13; Length 911;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1757 CCAGTGGTCCAAAAGGCTGCTCTCTTCCAC 1787
|||||
Db 64 CCAGTGGTCCAAAAGGCTGCTCTCTTCCAC 34

Search completed: December 29, 2002, 01:11:31
Job time : 2479 secs

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GenCore version 5.1.3  
Copyright (c) 1993 - 2002 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 28, 2002, 15:41:47 ; Search time 4786 Seconds  
(without alignments)  
11407.612 Million cell updates/sec

Title: US-09-944-896-49

Perfect score: 1876  
Sequence: 1 cttctttgtccaccagccca.....tcagctgaaaaaaaaaaaaa 1876

Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

GenEmbl.\*

1: gb\_ba.\*

2: gb\_hcg.\*

3: gb\_in.\*

4: gb\_om.\*

5: gb\_ov.\*

6: gb\_pat.\*

7: gb\_ph.\*

8: gb\_pl.\*

9: gb\_pr.\*

10: gb\_ro.\*

11: gb\_sts.\*

12: gb\_sy.\*

13: gb\_un.\*

14: gb\_vi.\*

15: gb\_wa.\*

16: em\_fun.\*

17: em\_hum.\*

18: em\_in.\*

19: em\_mu.\*

20: em\_om.\*

21: em\_or.\*

22: em\_ov.\*

23: em\_pat.\*

24: em\_ph.\*

25: em\_pl.\*

26: em\_ro.\*

27: em\_sts.\*

28: em\_un.\*

29: em\_vi.\*

30: em\_htg\_hum.\*

31: em\_htg\_inv.\*

32: em\_htg\_other.\*

33: em\_htg\_mus.\*

34: em\_htg\_pln.\*

35: em\_htg\_rod.\*

36: em\_htg\_mam.\*

37: em\_htg\_vrt.\*

38: em\_sy.\*

39: em\_higo\_hum.\*

40: em\_higo\_mus.\*

41: em\_higo\_other.\*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

| Result No. | Score | % Match | Length | DB | ID         | Description        |
|------------|-------|---------|--------|----|------------|--------------------|
| 1          | 1721  | 91.7    | 1775   | 6  | AX191503   | AX191503 Sequence  |
| 2          | 1296  | 69.1    | 1341   | 6  | AX191493   | AX191493 Sequence  |
| 3          | 981.6 | 52.3    | 3293   | 9  | HSM804652  | AL833339 Homo sapi |
| 4          | 704.4 | 37.5    | 2900   | 9  | AB060195   | AB060195 Macaca fa |
| 5          | 672.8 | 35.9    | 690    | 6  | AX366554   | AX366554 Sequence  |
| 6          | 550   | 29.3    | 1328   | 9  | BC008616   | BC008616 Homo sapi |
| 7          | 414.6 | 22.1    | 163427 | 9  | AC009053   | AC009053 Homo sapi |
| 8          | 414.6 | 22.1    | 177479 | 9  | AC009153   | AC009153 Homo sapi |
| 9          | 414.6 | 22.1    | 197460 | 2  | AC126771   | AC126771 Homo sapi |
| 10         | 411.4 | 21.9    | 179675 | 9  | AC026468   | AC026468 Homo sapi |
| 11         | 411.4 | 21.9    | 190595 | 9  | AC009022   | AC009022 Homo sapi |
| 12         | 409.8 | 21.8    | 180596 | 9  | AC009060   | AC009060 Homo sapi |
| 13         | 409.8 | 21.8    | 191108 | 2  | AC097265   | AC097265 Pan trogl |
| 14         | 380   | 20.3    | 204182 | 2  | AC097271   | AC097271 Pan trogl |
| 15         | 373.6 | 19.9    | 200409 | 2  | AC097331   | AC097331 Pan trogl |
| 16         | 244.4 | 13.0    | 200409 | 2  | AC097331   | AC097331 Pan trogl |
| 17         | 241.2 | 12.9    | 205044 | 2  | AC009125   | AC009125 Homo sapi |
| 18         | 240.4 | 12.8    | 205044 | 2  | AC009125   | AC009125 Homo sapi |
| 19         | 192.6 | 10.3    | 79023  | 2  | AC021951   | AC021951 Homo sapi |
| 20         | 145.6 | 7.8     | 179237 | 2  | AC111287   | AC111287 Rattus no |
| 21         | 145.6 | 7.8     | 179237 | 2  | AC098076   | AC098076 Rattus no |
| 22         | 139.4 | 7.4     | 200755 | 2  | AC093451   | AC093451 Mus muscu |
| 23         | 133.8 | 7.1     | 79023  | 2  | AC021951   | AC021951 Homo sapi |
| 24         | 95.8  | 5.1     | 2340   | 9  | AK096051   | AK096051 Homo sapi |
| 25         | 75    | 4.0     | 125020 | 9  | AF429315   | AF429315 Homo sapi |
| 26         | 73.8  | 3.9     | 179237 | 2  | AC111287   | AC111287 Rattus no |
| 27         | 67.2  | 3.6     | 125020 | 9  | AF429315   | AF429315 Homo sapi |
| 28         | 55.2  | 2.9     | 1491   | 6  | AX101173   | AX101173 Sequence  |
| 29         | 55.2  | 2.9     | 1669   | 9  | AX235371   | AX235371 Sequence  |
| 30         | 55.2  | 2.9     | 1690   | 9  | AK027395   | AK027395 Homo sapi |
| 31         | 55.2  | 2.9     | 1824   | 6  | AX358802   | AX358802 Sequence  |
| 32         | 55.2  | 2.9     | 1824   | 6  | AX362295   | AX362295 Sequence  |
| 33         | 55.2  | 2.9     | 2272   | 6  | AX101175   | AX101175 Sequence  |
| 34         | 55.2  | 2.9     | 4574   | 6  | AX086850   | AX086850 Sequence  |
| 35         | 55.2  | 2.9     | 4574   | 9  | HSM801829  | AL136861 Homo sapi |
| 36         | 55.2  | 2.9     | 4877   | 6  | AX285067   | AX285067 Sequence  |
| 37         | 55.2  | 2.9     | 4877   | 6  | AX285068   | AX285068 Sequence  |
| 38         | 55.2  | 2.9     | 4877   | 6  | AX285079   | AX285079 Sequence  |
| 39         | 55    | 2.9     | 2403   | 6  | AX235373   | AX235373 Sequence  |
| 40         | 53.6  | 2.9     | 2400   | 6  | AX235369   | AX235369 Sequence  |
| 41         | 53.2  | 2.8     | 3052   | 10 | AF109674   | AF109674 Rattus no |
| 42         | 48.8  | 2.6     | 166126 | 2  | AF003686   | AP003686 Oryza sat |
| 43         | 48.4  | 2.6     | 2664   | 9  | HSHEPEGF   | X62489 H.sapiens D |
| 44         | 48.4  | 2.6     | 2668   | 9  | HSTNX12    | X71923 H.sapiens X |
| 45         | 48.4  | 2.6     | 100267 | 9  | HSMMC3W36A | U89337 Homo sapien |

## ALIGNMENTS

|            |  |             |                |            |        |                 |
|------------|--|-------------|----------------|------------|--------|-----------------|
| RESULT 1   | AX191503   | AX191503    | 1775 bp        | DNA        | linear | PAT 15-AUG-2001 |
| LOCUS      | AX191503   | Sequence    | 25 from Patent | WO0149728. |        |                 |
| DEFINITION | AX191503   | Sequence    |                |            |        |                 |
| ACCESSION  | AX191503   | Sequence    |                |            |        |                 |
| VERSION    | AX191503.1   | GI:15209689 |                |            |        |                 |
| KEYWORDS   |  |             |                |            |        |                 |
| SOURCE     | human.   |             |                |            |        |                 |
| ORGANISM   | Homo sapiens   |             |                |            |        |                 |
| REFERENCE  | 1 (bases 1 to 1775)  |             |                |            |        |                 |
| AUTHORS    | Kato,S. and Kimura,T.  |             |                |            |        |                 |
| TITLE      | Human proteins having hydrophobic domains and dnas encoding these proteins |             |                |            |        |                 |

JOURNAL Patent: WO 0149728-A 25 12-JUL-2001;  
Protegene Inc. (JP) : SAGAMI CHEMICAL RESEARCH CENTER (JP)  
FEATURES Location/Qualifiers  
source 1..1775  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
CDS 62..1402  
/note="unnamed protein product"  
/codon\_start=1  
/protein\_id="CAC51149.1"  
/db\_xref="GI:15209690"  
/translation="MLHPSPSGEHLVALLLGTAWAEVWPOLQEQAPMAGALN  
RKSEFLLSLHNRLSVQPPADMRRLDWSLSLAQLAQAARALCGITPPSLASGLWR  
TLQVNMQLLPAGLASFEVYSLFWAEGQVYSHAAGECARNATCTHTYOLVWATSSQ  
LGGRLHLCQAQAEAFVCAISPGNGWVNGKTIIPYKGAWSLCTASVSGCFKAW  
DHAGLCEIGPNPCMSQNHRLNISTCHCPCPGYGRYCVRCVRSLOCVHGRFEE  
ECSVCDIGYGGAAQCAKVHPFPHTDLRIDGCFMVSSEADTYVRAEMKQKRGVL  
AOLKQKQVODILAFYLCRLTNEVIDSPETRFNFWLGLTYKTKADSFRAWTGHOAF  
TSFAFGPDNHEGNCVELQASAFNNQNRKTRNRYICQFAEHSRWGPGS"  
BASE COUNT 360 a 541 c 549 g 325 t  
ORIGIN

Query Match 91.7%; Score 1721; DB 6; Length 1775;  
Best Local Similarity 97.9%; Pred. No. 0;  
Matches 1764; Conservative 0; Mismatches 10; Indels 27; Gaps 1;

QY 63 AAACAAGCCGGGTGAGCGAGCTGTGACAGGAGCACCTGACGGGCCCAACAGACC 122  
DB 2 AAACAAGCCGGGTGAGCGAGCTGTGACAGGAGTGCCTGAGCGGCCCAACAGACC 61  
QY 123 ATGTGTCATCAGAGACTCCCTGGCGGGGGGATCTCTGGCTGTGCTCTCTGCCCCC 182  
DB 62 ATGTGTCATCAGAGACTCCCTGGCGGGGGGATCTCTGGCTGTGCTCTCTGCCCCC 121  
QY 183 CTTGGCACACCTGGGCAGAGGTGTGCCACCCAGCTGACAGGAGCGCTCCGATGGCC 242  
DB 122 CTTGGCACACCTGGGCAGAGGTGTGCCACCCAGCTGACAGGAGCGCTCCGATGGCC 181  
QY 243 GGAGCCCTGAACGAGGAGAGTTCCTGCTCTCTCCCTGACACCCGCTGGCGAGC 302  
DB 182 GGAGCCCTGAACGAGGAGAGTTCCTGCTCTCTCCCTGACACCCGCTGGCGAGC 241  
QY 303 TGGGTCCAGCCCTGGCGGTGACATCGGAGGTGACATGAGCTGACAGCTGGCCCAA 362  
DB 242 TGGGTCCAGCCCTGGCGGTGACATCGGAGGTGACATGAGCTGACAGCTGGCCCAA 301  
QY 363 CTGGCTCAAGCCAGGCGCTCTGTGGAATCCCAACCCGAGCGCTGGCATCGGCGTG 422  
DB 302 CTGGCTCAAGCCAGGCGCTCTGTGGAATCCCAACCCGAGCGCTGGCATCGGCGTG 361  
QY 423 TGGCGCACCTGCAAGTGGCTGGAACATGACATGAGCTGACATGAGCTGGCCCAA 482  
DB 362 TGGCGCACCTGCAAGTGGCTGGAACATGACATGAGCTGACATGAGCTGGCCCAA 421  
QY 483 GTTGAAGTGTGACGCTATGTTTGGAGGGGACGGTACAGCCACGGCGGAGAGAG 542  
DB 422 GTTGAAGTGTGACGCTATGTTTGGAGGGGACGGTACAGCCACGGCGGAGAGAG 481  
QY 543 TGTGCTCGCAACCCACCTGCACCCACTACACGAGCTGCTGTGGGCCACCTCAAGCCAG 602  
DB 482 TGTGCTCGCAACCCACCTGCACCCACTACACGAGCTGCTGTGGGCCACCTCAAGCCAG 541  
QY 603 CTTGGGCTGTGGGCGGACCTGTGCTGTGACGGCCAGACGCGATAGAAGCTTTGCTGT 662  
DB 542 CTTGGGCTGTGGGCGGACCTGTGCTGTGACGGCCAGGCGGATAGAAGCTTTGCTGT 601  
QY 663 GCCTACTCCCCGGAGGCAACTGGGAGGTCAACGGGAAGACAATCATCCCTATAAGAAG 722  
DB 602 GCCTACTCCCCGGAGGCAACTGGGAGGTCAACGGGAAGACAATCATCCCTATAAGAAG 661  
QY 723 GGTGCTGTGTTGCTGTGACAGGAGCTGTCTAGGCTGTCTCAAGGCTGGGACCAT 782  
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LGGRHLCSADOAAIEAFVCAVSPGNNVEVNGKTLVPYKKGAMCSLCTASVSGCFKAW
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BASE COUNT      614 a      861 c      885 g      540 t
ORIGIN
Query Match      37.5%; Score 704.4; DB 9; Length 2900;
Best Local Similarity 81.6%; Pred. No. 1.7e-143;
Matches 899; Conservative 0; Mismatches 46; Indels 157; Gaps 1;
QY  60 GAGAAACAGCGGGTGGCTGAGCAGAGCTGTGCACGGAGCACCTGACGGGCCAACACAGA 119
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Db   1 GAGAAACAGCGGGTGGCTGAGCAGAGCTGTGCTCGGAGCGCTCACAGGCCAACACAGA 60
QY  120 CCATGTGTCATCAGACACCTCCCTGGCGGGGGGCACTCTCTGGCTGTGCTCTGGCC 179
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QY  180 CTCCTTGGCACACCTGGGCAGAGGTGGCCACCCAGCTCCAGGAGCAGGCTCCGATG 239
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Db   121 TTCCTTGGCACACCTGGGCAGAGGTGGCCACCCAGCTCCAGGAGCAGGCTCCGATG 180
QY  240 GCCGAGCGCTGAAACAGGAGAGGTTCCTTGTCTCTCCCTGCACACCGCCCTGGCC 299
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Db   181 GCCAGAGCCCTGACCAGAGAGAGTTCCTTGTCTCTCCCTGCACACCGCCCTGGCC 240
QY  300 AGCTGGGTCCAGCCCCCTCGCGCTGACATGCGAGGCTGGAGTGGAGTGCACACCTGGCC 359
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QY  360 CAACTGGTCCAGCCAGGCACCTCTGTGGAATCCCAACCCCGAGCTGCATCCGCG 419
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QY  420 CTGTGGCGCACCTCAAGTGGGCTGGAAATCGAGCTGTGCGCGGGGCTTGGCGTCC 479
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Db   361 CCGTGGCACACCTTCAAGTGGGCTGGACGTGCAGCTGCTGCTGGCGGCTCAGCGTCC 420
QY  480 TTTGTTGAAGTGGTCAGCCTATGTTTGCAGAGGGGCGAGGTACAGCCACGCGGAGGA 539
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Db   481 GAGTGTGCGCGGAATGCCACCTGCACCCACTACAGCAGCTGCTGTGGGCGCCTCAAGC 540
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QY  660 TGTGCTTACTCCCGGAGGCAACTGGGAGGTCAACGGGAAGACAATCATCCCTTAAAG 719
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QY  720 AAGGTCCTGTGTGCTGTGCACAGCAGTGTCTCAGGCTGCTTCAAGCCTGGGAC 779
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QY  780 CATGAGGGGGGCTCTGT----- 797
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QY 798 -----GAGGT 802
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Db 1081 GGGAGCCAGTGTGCCAGTGAG 1102

RESULT 5
AX366554
LOCUS      AX366554
DEFINITION Sequence 321 from Patent WO0206317.
ACCESSION AX366554
VERSION    AX366554.1 GI:18697979
KEYWORDS   .
SOURCE      human.
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS     Mitcham,J.L., King,G.E., Algate,P.A., Fling,S.P., Retter,M.W.,
            Fanger,G.R., Reed,S.G., Vedvick,T.S., Carter,D., Hill,P. and
            Albone,E.
TITLE        Compositions and methods for the therapy and diagnosis of ovarian
            cancer
JOURNAL      Patent: WO 0206317-A 321 24-JAN-2002;
            CORIXA CORPORATION (US)
FEATURES     Location/Qualifiers
            source          1..690
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                        /db_xref="taxon:9606"
BASE COUNT   148 a   197 c   212 g   131 t
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Query Match      35.9%; Score 672.8; DB 6; Length 690;
Best Local Similarity 99.3%; Pred. No. 1.5e-136;
Matches 685; Conservative 0; Mismatches 4; Indels 1; Gaps 1;
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QY  664 CCTACTCCCCGGAGGCAACTGGGAGGTCAACGGGAAGACAATCATCCCTATAAGAAG 723
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Db 121 GTGCTGTGTGCTCTGCACAGCCAGTGTCTCAGGCTGCTTCAAGCCTGGGACCATG 180
QY  784 CAGGGGGCTCTGTAGGTCCCCAGGAATCTTTGTGCGATGAGCTGCCAGAACCTGGAC 843
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Db 181 CAGGGGGCTCTGTGAGGTCCCCAGGAATCTTTGTGCGATGAGCTGCCAGAACCTGGAC 240
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Qy 1263 TCCTTCGCTGGCCACAGGGGAGACACAG 1292
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RESULT 6
BC008616 BC008616 1328 bp mRNA linear PRI 12-JUL-2001
LOCUS Homo sapiens, clone IMAGE:4178394, mRNA, partial cds.
DEFINITION BC008616
ACCESSION BC008616
VERSION BC008616.1 GI:14250368
KEYWORDS
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 1328)
AUTHORS Strausberg, R.
TITLE Direct Submission
JOURNAL Submitted (25-MAY-2001) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
REMARK NIH-MGC Project URL: http://mgc.nci.nih.gov
COMMENT Contact: MGC help desk
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: David N. Louis, M.D.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNL)
DNA Sequencing by: Baylor College of Medicine Human Genome
Sequencing Center
Center code: BCM-HGSC
Web site: http://www.hgsc.bcm.tmc.edu/cdna/
Contact: villalona@bcm.tmc.edu.
Villalona, D.K., Luna, R.A., Hale, S.M., Hulyk, S., Lu, X., Garcia,
A.M., Holloway, M., Telford, B., Hodgson, A., Bouck, J., Yu, W.,
Muzny, D.M., Gibbs, R.A.

Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/ILNL at: http://image.llnl.gov
Series: IRAK Project: 12 Row: h Column: 4
This clone was selected for full length sequencing because it
passed the following selection criteria: Hexamer frequency ORF
analysis.
FEATURES
Location/Qualifiers
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BASE COUNT 305 a 381 c 398 g 244 t
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Query Match 29.3%; Score 550; DB 9; Length 1328;
Best Local Similarity 94.1%; Pred. No. 9.9e-110;
Matches 593; Conservative 0; Mismatches 10; Indels 27; Gaps 1;
QY 1236 GGCTCACCTACAGACCGCCAGGACTCTTCCGCTGGGCCACAGGGGAGCACCAGGCC 1295
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QY 1296 TTACACAGTTTTGCTTTGGGACGCCGTGACAAACACAGGGCTGGTGTGCTGAGTGTGCC 1355
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QY 1356 ATGGGTTTGGCAACTCGCTGGAGCTGCAGCTTTCAGCTTCCAGCTTCAACTGGAACACCAG 1415
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QY 1476 GGCCCGAGGTCCTGAGGCGCTGACCACATGGCTCCCTCGCTGGGAGCACCAGGCCCTC 1535
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QY 1716 GGAAGATGGCTTCAATTAGATGGCAGAGAGAGACACCGCCAGTGTGTCCTCCAAAAGGCT 1775
Db 699 GGAAGATGGCTTCAATTAGATGGCAGAGAGAGAGACACCGCCAGTGTGTCCTCCAAAAGGCT 758
QY 1776 GCTCTCTTCCACCTGGCCAGACCTGTGGGAGCAGGAGCTTCCTGTGGCATGAACCC 1835
Db 759 GCTCTCTTCCACCTGGCCAGACCTGTGGGAGCAGGAGCTTCCTGTGGCATGAACCC 818
QY 1836 CACGGGTATTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1865
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RESULT 7
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LOCUS Homo sapiens chromosome 16 clone RP11-252A24, complete sequence.
DEFINITION AC009053
ACCESSION AC009053
VERSION AC009053.7 GI:15022678
KEYWORDS HTG.
SOURCE Homo sapiens.
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ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 163427)
AUTHORS DOE Joint Genome Institute and Stanford Human Genome Center.
TITLE Direct Submission
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 163427)
AUTHORS DOE Joint Genome Institute.
TITLE Direct Submission
JOURNAL Submitted (03-AUG-1999) Production Sequencing Facility, DOE Joint
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
REFERENCE 3 (bases 1 to 163427)
AUTHORS DOE Joint Genome Institute and Stanford Human Genome Center.
TITLE Direct Submission
JOURNAL Submitted (27-JUL-2001) DOE Joint Genome Institute, 2800 Mitchell
Drive, Walnut Creek, CA 94598, USA
COMMENT On Jul 27, 2001 this sequence version replaced gi:9256116.
Draft Sequence Produced by DOE Joint Genome Institute
www.jgi.doe.gov
Finishing Completed at Stanford Human Genome Center
www.shgc.stanford.edu
SHGC-32349 G27498
SHGC-32146 G27136
SHGC-36058 G30050.
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Query Match      22.1%; Score 414.6; DB 9; Length 163427;
Best Local Similarity 97.9%; Pred. No. 2.4e-80;
Matches 420; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

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Db 55250 TTCTGCTTCTCCAGCCAGGAGCACATCTCCGGTGGGGCCAGGGTCTCAGGCGCTG 55309

QY 1497 ACCACATGGCTCCCTCGCTCGCTGGAGCACCGGCTCTGCTTACCTGCTGCCACCT 1556
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Db 55310 ACCACATGGCTCCCTCGCTCGCTGGAGCACCGGCTCTGCTTACCTGCTGCCACCT 55369

QY 1557 GTCTGGAACAAGGGCCAGGTTAAGACACATGCTCATGTCCAAAGAGGTCTCAGACCTT 1616
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Db 55370 GTCTGGAACAAGGGCCAGGTTAAGACACATGCTCATGTCCAAAGAGGTCTCAGACCTT 55429

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QY 1677 TGTAGAAAGAGCTGGGGCCCTTCGCCTGCTTTTGTGTTGTTGGAAGATGGGCTTCAATTAGA 1736
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DEFINITION AC009153
ACCESSION AC009153
VERSION AC009153.10 GI:18997244
KEYWORDS HTG.
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 177479)
AUTHORS DOE Joint Genome Institute and Stanford Human Genome Center.
TITLE Direct Submission
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 177479)
AUTHORS DOE Joint Genome Institute.
TITLE Direct Submission
JOURNAL Submitted (03-AUG-1999) Production Sequencing Facility, DOE Joint
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
REFERENCE 3 (bases 1 to 177479)
AUTHORS DOE Joint Genome Institute and Stanford Human Genome Center.
TITLE Direct Submission
JOURNAL Submitted (05-JAN-2002) DOE Joint Genome Institute, 2800 Mitchell
Drive, Walnut Creek, CA 94598, USA
REFERENCE 4 (bases 1 to 177479)
AUTHORS DOE Joint Genome Institute and Stanford Human Genome Center.
TITLE Direct Submission
JOURNAL Submitted (28-FEB-2002) DOE Joint Genome Institute, 2800 Mitchell
Drive, Walnut Creek, CA 94598, USA
COMMENT On Feb 28, 2002 this sequence version replaced gi:18071320.
Draft Sequence Produced by DOE Joint Genome Institute
www.jgi.doe.gov
Finishing Completed at Stanford Human Genome Center
www.shgc.stanford.edu
Quality: Phrap Quality >=40 99.9% of Sequence;
Estimated Total Number of Errors is 0.2.
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Best Local Similarity 97.9%; Pred. No. 2.4e-80;
Matches 420; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 1437 TACATCTGCCAGTTGCCAGGAGCACATCTCCGGTGGGGCCAGGGTCTCAGGCGCTG 1496
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Db 144589 ACCCTGTGGGCGAGGAGCTCCCTGTGCGATGAACCCACGGGTATTAATAATATGAA 144648  
QY 1857 TCAGCTGAA 1865  
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LOCUS Homo sapiens chromosome 16 clone RP11-396D24, \*\*\* SEQUENCING IN  
DEFINITION PROGRESS \*\*\*, 10 unordered pieces.  
AC126771  
AC126771.1 GI:21717140  
VERSION HTG; HTGS\_PHASE1.  
KEYWORDS human.  
SOURCE  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 197460)  
DOE Joint Genome Institute.  
TITLE Sequencing of Human Chromosome 16  
JOURNAL Unpublished  
AUTHORS  
2 (bases 1 to 197460)  
DOE Joint Genome Institute.  
DIRECT SUBMISSION  
Submitted (09-JUL-2002) Production Sequencing Facility, DOE Joint  
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA  
-----Genome Center  
Center: Joint Genome Institute  
Center Code: JGI  
Web site: <http://www.jgi.doe.gov>  
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Project Information  
Center Project Name: 558525  
Center clone name: RPCI-11\_396D24  
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Summary Statistics  
Consensus quality: 191546 bases at least Q40  
Consensus quality: 193703 bases at least Q30  
Consensus quality: 194840 bases at least Q20  
Estimated insert size: 0; null estimation  
Estimated insert size: 196560; sum-of-contigs estimation  
Quality coverage: 2.1474836E7 in Q20 bases; null estimation  
Quality coverage: 8.2 in Q20 bases; sum-of-contigs estimation.  
\* NOTE: This is a 'working draft' sequence. It currently  
\* consists of 10 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence  
\* as soon as it is available and the accession number will  
\* be preserved.  
\* 1 1600: contig of 1600 bp in length  
\* 1601 1700: gap of unknown length  
\* 1701 3466: contig of 1766 bp in length  
\* 3467 3566: gap of unknown length  
\* 3567 5709: contig of 2143 bp in length  
\* 5710 5809: gap of unknown length  
\* 5810 7800: contig of 1991 bp in length  
\* 7801 7900: gap of unknown length  
\* 7901 14727: contig of 6827 bp in length  
\* 14728 14827: gap of unknown length  
\* 14828 26876: contig of 12049 bp in length  
\* 26877 26976: gap of unknown length  
\* 26977 46712: contig of 19736 bp in length  
\* 46713 46812: gap of unknown length  
\* 46813 70129: contig of 23317 bp in length  
\* 70130 70229: gap of unknown length

\* 70230 93612: contig of 23383 bp in length  
\* 93613 93712: gap of unknown length  
\* 93713 197460: contig of 103748 bp in length.  
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1.197460  
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/db\_xref="taxon:9606"  
/chromosome="16"  
/clone="RP11-396D24"  
/clone\_lib="RPCI human BAC library 11"  
BASE COUNT 50025 a 47482 c 47491 g 51562 t 900 others  
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Query Match 22.1%; Score 414.6; DB 2; Length 197460;  
Best Local Similarity 97.9%; Pred. No. 2.3e-80;  
Matches 420; Conservative 0; Mismatches 9; Indels 0; Gaps 0;  
QY 1437 TACATCTGCCAGTTTGGCCAGGAGCACATCTCCCGTGGGGCCAGGGTCTGAGGCGCTG 1496  
|||  
Db 134888 TTCTGCTTCTCCAGCCCGAGGAGCACATCTCCCGTGGGGCCAGGGTCTGAGGCGCTG 134947  
QY 1497 ACCACATGGCTCCCTCGCTCCCTGGGAGCACCGGCTCTGCTTACCTGTCTGCCACCT 1556  
|||||  
Db 134948 ACCACATGGCTCCCTCGCTCCCTGGGAGCACCGGCTCTGCTTACCTGTCTGCCACCT 135007  
QY 1557 GTCTGGAACAAGGGCCAGGTTAAGACCACATGCTCCATGTCCAAAGAGGTCTCAGACCTT 1616  
|||||  
Db 135008 GTCTGGAACAAGGGCCAGGTTAAGACCACATGCTCCATGTCCAAAGAGGTCTCAGACCTT 135067  
QY 1617 GCACATGCCAGAGTTGGGCGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1676  
|||||  
Db 135068 GCACATGCCAGAGTTGGGCGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 135127  
QY 1677 TGTTAGAAGAAGCTGGGGCCCTTCGCTGCTTTGATTTGGGAAGATGGGCTTCAATTAGA 1736  
|||||  
Db 135128 TGTTAGAAGAAGCTGGGGCCCTTCGCTGCTTTGATTTGGGAAGATGGGCTTCAATTAGA 135187  
QY 1737 TGGCGAAGGAGAGGAGACACCGCCAGTGTGTCACAAAGAGTGTCTCTTCCACCTGGGCCAG 1796  
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Db 135188 TGGCGAAGGAGAGGAGACACCGCCAGTGTGTCACAAAGAGTGTCTCTTCCACCTGGGCCAG 135247  
QY 1797 ACCTGTGGGGCAGCGAGCTTCCCTGTGCGATGAACCCACGGGTATTAATAATATGAA 1856  
|||||  
Db 135248 ACCTGTGGGGCAGCGAGCTTCCCTGTGCGATGAACCCACGGGTATTAATAATATGAA 135307  
QY 1857 TCAGCTGAA 1865  
|||||  
Db 135308 TCAGCTGAA 135316  
RESULT 10  
AC026468/c 179675 bp DNA linear PRI 02-NOV-2001  
LOCUS Homo sapiens chromosome 16 clone RP11-419C5, complete sequence.  
DEFINITION AC026468  
ACCESSION AC026468  
VERSION AC026468.6 GI:16596532  
KEYWORDS HTG.  
SOURCE Homo sapiens.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 179675)  
DOE Joint Genome Institute.  
TITLE Sequencing of Human Chromosome 16  
JOURNAL Unpublished  
AUTHORS  
2 (bases 1 to 179675)  
DOE Joint Genome Institute.  
DIRECT SUBMISSION  
Submitted (22-MAR-2000) Production Sequencing Facility, DOE Joint  
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA  
REFERENCE  
3 (bases 1 to 179675)  
DOE Joint Genome Institute.  
DIRECT SUBMISSION





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QY 1677 TCTTAGAAGAAGCTGGGGCCCTTCGCTTGTGATTGGGAAGATGGGCTTCAATTAGA 1736
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Db 179458 TGTTAGAAGAAGCTGGGGCCCTTCGCTTGTGATTGGGAAGATGGGCTTCAATTAGA 179399
|||||
QY 1737 TGGCGAAGGAGAGGACACCGCAGTGGTCCAAAGAGCTCTCTTCCACCTGGCCAG 1796
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Db 179398 TGGCGAAGGAGAGGACACCGCAGTGGTCCAAAGAGCTCTCTTCCACCTGGCCAG 179339
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QY 1797 ACCCTGTGGGGCAGGGAGCTTCCCTGTGGCATGAACCCACCGGGTATTAAATTTAGAA 1856
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Db 179338 ACCCTGTGGGGCAGGGAGCTTCCCTGTGGCATGAACCCACCGGGTATTAAATTTAGAA 179279
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QY 1857 TCAGCTGAA 1865
|||||
Db 179278 TCAGCTGAA 179270

RESULT 12
AC009060 AC009060 180596 bp DNA linear PRI 04-AUG-2000
LOCUS Homo sapiens chromosome 16 clone RP11-296110, complete sequence.
AC009060
VERSION AC009060.7 GI:9690317
KEYWORDS HTG.
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 180596)
DOE Joint Genome Institute and Stanford Human Genome Center.
Direct Submission
Unpublished
DOE Joint Genome Institute.
2 (bases 1 to 180596)
Direct Submission
Submitted (03-AUG-1999) Production Sequencing Facility, DOE Joint
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
3 (bases 1 to 180596)
DOE Joint Genome Institute and Stanford Human Genome Center.
Direct Submission
Submitted (04-AUG-2000) DOE Joint Genome Institute, 2800 Mitchell
Drive, Walnut Creek, CA 94598, USA
On Aug 4, 2000 this sequence version replaced gi:92561118.
Draft Sequence Produced by DOE Joint Genome Institute
www.jgi.doe.gov
Finishing Completed at Stanford Human Genome Center
www.shgc.stanford.edu
Quality: Phrap Quality >=40 99.9% of Sequence;
Estimated Total Number of Errors is 0.2.
STS Content:
SHGC-32944 G29390
WI-6927 G06314
WI-16981 G21928
WI-9564 G06056.
FEATURES
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1. 180596
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="16"
/clone="RP11-296110"
BASE COUNT 48046 a 43474 c 42543 g 46533 t
ORIGIN
Query Match 21.8%; Score 409.8; DB 9; Length 180596;
Best Local Similarity 97.2%; Pred. No. 2.7e-79;
Matches 417; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
QY 1437 TACATCTCCAGTTGCCAGAGACATCTCCCGTGGGGCCAGGCTCTGAGGCGCTG 1496
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Db 87744 TTCTGCTCTCTCCAGCCAGAGACATCTCCCGTGGGGCCAGGCTCTGAGGCGCTG 87803
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Db 87804 ACCACATGGCTCCCTCGCTGCGCTGGGAGACACCGGCTCTGCTTACCTGTCCGCCACCT 87863
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Db 88044 TGGCAAGGAGAGGACACCGCAGTGGTCCAAAGAGGTCTCTTCCACCTGGCCAG 88103
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QY 1797 ACCCTGTGGGGCAGGGAGCTTCCCTGTGGCATGAACCCACCGGGTATTAAATTTAGAA 1856
|||||
Db 88104 ACCCTGTGGGGCAGGGAGCTTCCCTGTGGCATGAACCCACCGGGTATTAAATTTAGAA 88163
|||||
QY 1857 TCAGCTGAA 1865
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Db 88164 TCAGCTGAA 88172

AC097265 191108 bp DNA linear HTG 25-OCT-2001
Pan troglodytes clone RP43-119N13, WORKING DRAFT SEQUENCE, 4
unordered pieces.
AC097265
AC097265 3 GI:16328241
HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP; HTGS_ACTIVEFIN.
Pan troglodytes
Pan troglodytes
REFERENCE
1 (bases 1 to 191108)
Muzny, D.M., Adams, C., Adio-Oduola, B., Ali-Osman, F.R., Allen, C.,
Alsbrooks, S.L., Amaral, H.C., Are, J.R., Banks, T., Barbarella, J.,
Benton, J., Blum, K., Blum, K., Blum, K., Bonnini, D., Bouck, J.,
Bowles, S., Brieva, M., Brown, E., Brown, M., Bryant, N.P., Buhay, C.,
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Chen, Z., Chowdhry, I., Christopoulos, C., Cleveland, C.D., Cox, C.,
Coyle, M.D., Dathorne, S.R., David, R., Davila, M.L., Davis, C.,
Davy-Carroll, L., Dederich, D.A., Delaney, K.R., Delgado, O.,
Denn, A.L., Ding, Y., Dinh, H.H., Douthwaite, K.J., Draper, H.,
Dugan-Rocha, S., Durbin, K.J., Earnhart, C., Edgar, D., Edwards, C.C.,
Elhaj, C., Escotto, M., Falls, T., Ferraguto, D., Flagg, N., Ford, J.,
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Hamilton, K., Harris, K., Harris, K., Hart, M., Havlak, P., Hawes, A.,
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Jackson, L.E., Jacobson, B., Jia, Y., Johnson, R., Jolivet, S.,
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Kovar, C., Kratovic, J., Kureshi, A., Landry, N., Leal, B., Lewis, L.C.,
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Ma, J., Maheshwari, M., Mapua, P., Martin, R., Martindale, A.,
Martinez, E., Massey, E., Mawhiney, E., McLeod, M.P., Meador, M.,
Mei, G., Metzker, M., Miner, G., Miner, Z., Mitchell, T., Mohabbat, K.,
Morgan, M., Morris, S., Moser, M., Neal, D., Newton, J., Newton, N.,
Nguyen, A., Nguyen, N., Nguyen, N., Nickerson, E., Nwokoko, S.,
Ogulu, M., Okunolu, G., Oragunye, N., Oviedo, R., Pace, A., Payton, B.,
Peery, J., Perez, L., Peters, L., Pickens, R., Primus, E., Pu, L.L.,
Quiles, M., Ren, Y., Rives, M., Rojas, A., Rojubokan, I., Rolfe, M.,
Ruiz, S., Savery, G., Scherer, S., Scott, G., Shen, H., Shoostari, N.,
Sisson, I., Sodergren, E., Sonaike, T., Sparks, A., Stanley, H.,
Stone, H., Sutton, A., Svatek, A., Tabor, P., Tamerisa, A., Tamerisa, K.,

```



Worley,K., Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Nelson,D.,  
Weinstock,G. and Gibbs,R.  
Direct Submission  
2 (bases 1 to 204182)  
Worley,K.C.  
Direct Submission  
Submitted (13-OCT-2001) Human Genome Sequencing Center, Department  
of Molecular and Human Genetics, Baylor College of Medicine, One  
Baylor Plaza, Houston, TX 77030, USA  
----- Genome Center of Medicine  
Center: Baylor College of Medicine  
Center code: BCM  
Web site: <http://www.hgsc.bcm.tmc.edu/>  
Contact: hgsc-help@bcm.tmc.edu  
----- Project Information  
Center project name: ZUAY  
Center clone name: RP43-35B16  
----- Summary Statistics  
Sequencing vector: Plasmid; M77789  
Chemistry: Dye-terminator Big Dye; 100% of reads  
Assembly program: Phrap; version 0.990329  
Consensus quality: 202604 bases at least Q40  
Consensus quality: 204032 bases at least Q30  
Consensus quality: 205164 bases at least Q20  
Estimated insert size: 200244; sum-of-contigs estimation  
Quality coverage: 0x in Q20 bases; agarose-fp estimation  
Quality coverage: 9.4x in Q20 bases; sum-of-contigs estimation  
-----

## COMMENT

\* NOTE: Estimated insert size may differ from sequence length  
(see [http://www.hgsc.bcm.tmc.edu/docs/Genbank\\_draft\\_data.html](http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html)).  
\* NOTE: This is a 'working draft' sequence. It currently  
\* consists of 8 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence  
\* as soon as it is available and the accession number will  
\* be preserved.

1 48992: contig of 48992 bp in length  
\* 48993 49092: gap of unknown length  
\* 49093 90442: contig of 41350 bp in length  
\* 90443 90542: gap of unknown length  
\* 90543 124888: contig of 34346 bp in length  
\* 124889 124988: gap of unknown length  
\* 124989 145269: contig of 20281 bp in length  
\* 145270 145369: gap of unknown length  
\* 145370 173261: contig of 27892 bp in length  
\* 173262 173362: gap of unknown length  
\* 173362 186532: contig of 13171 bp in length  
\* 186533 201672: gap of unknown length  
\* 201673 201772: contig of 15040 bp in length  
\* 201773 204182: contig of 2410 bp in length.

## FEATURES

Location/Qualifiers  
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/organism="Pan troglodytes"  
/db\_xref="taxon:9598"  
/clone="RP43-35B16"

BASE COUNT 52711 a 50970 c 50521 g 49254 t 726 others

## ORIGIN

Query Match 20.3%; Score 380; DB 2; Length 204182;  
Best Local Similarity 93.2%; Pred. No. 8.5e-73;  
Matches 414; Conservative 0; Mismatches 15; Indels 15; Gaps 1;  
QY 1437 TACATCTCCAGTTTCCAGGAGACATCTCCCGTGGGGCCAGGGTCTGAGGCGTG 1496  
| | | | |  
Db 17230 TTCTGCTTCTTCCAGCCAGGAGACATCTCCCGTGGGGCCAGGGTCTGAGGCGTG 17289  
| | | | |  
QY 1497 ACCACATGGCTCCCTCGCTGCTGGGAGCACCGGCTCTGCTTACTCTGCTGCCACCT 1556  
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Db 17290 ACCACATGGCTCCCTCGCTGCTGGGAGCACCGGCTCTGCTTACTCTGCTGCCACCT 17349  
| | | | |

QY 1557 GTCTGGAACAAGG-----GCCAGGTTAAGACACATGCTCTCATGTCCAAA 1601  
| | | | |  
Db 17350 GTCTGGAACAAGGTTCCACCTGTCTGGAACAAGGTTAAGACACATGCTCTCATGTCCAAA 17409  
| | | | |  
QY 1602 GAGGTCTCAGACCTTGCACAATGCCAAGTTGGGCGAGAGAGAGGAGGAGGCGGAGTGA 1661  
| | | | |  
Db 17410 GAGGTCTCAGACCTTGCACAATGCCAAGTTGGGCGAGAGAGAGGAGGAGGCGGAGTGA 17469  
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QY 1662 GGGCCAGGAGTGCAGTGTAGAAAGAGTGGGGCCCTTCGCTGCTTTTGTATTGGGAAGA 1721  
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Db 17470 GGGCCAGGAGTGCAGTGTAGAAAGAGTGGGGCCCTTCGCTGCTTTTGTATTGGGAAGA 17529  
| | | | |  
QY 1722 TGGGCTTCAATTAGATGGCGAAGGAGAGACACCCAGTGGTCCAAAAGGCTGCTCTC 1781  
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Db 17530 TGGGCTTCAATTAGATGGCGAAGGAGAGACCCAGTGGTCCAAAAGGCTGCTCTC 17589  
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QY 1782 TTCCACCTGGCCAGACACCTTGGGGCAGGAGGAGTTCCTCTGTGGCATGAACCCACAGG 1841  
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Db 17590 TTCCACCTGGCCAGACACCTTGGGGCAGGAGGAGTTCCTCTGTGGCATGAACCCACAGG 17649  
| | | | |  
QY 1842 GTATTAAATTTATGAATCAGCTGAA 1865  
| | | | |  
Db 17650 GTATTAAATTTATGAATCAGCTGAA 17673  
| | | | |

## RESULT 15

AC097331/c 200409 bp DNA linear HTG 22-JUN-2002  
AC097331 Pan troglodytes clone RP43-53A2, WORKING DRAFT SEQUENCE, 14  
LOCUS unorderd pieces.  
DEFINITION AC097331  
AC097331.4 GI:21535856  
VERSION HTG: HTGS\_PHASE1; HTGS\_DRAFT; HTGS\_FULLTOP.  
KEYWORDS chimpanzee  
SOURCE Pan troglodytes  
ORGANISM  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.  
REFERENCE 1 (bases 1 to 200409)  
AUTHORS Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-osman,F.R., Allen,C.,  
Alsbrooks,S.L., Anarunge,H.C., Are,J.R., Ayele,M., Banks,T.,  
Barbaria,J., Benton,J., Bimage,K., Blankenburg,K., Bonnin,D.,  
Bouck,J., Bowie,S., Brieva,M., Brown,E., Brown,M., Bryant,N.P.,  
Buhay,C., Burch,P., Burkett,C., Burrell,K.L., Byrd,N.C.,  
Carron,T.F., Carter,M., Cavazos,S.R., Chacko,J., Chavez,D.,  
Chen,G., Chen,R., Chen,Z., Chowdhry,I., Christopoulos,C.,  
Cleveland,C.D., Cox,C., Coyle,M.D., Dathorne,S.R., David,R.,  
Davila,M.L., Davis,C., Davy-Carroll,L., Dederich,D.A.,  
Delaney,K.R., Delgado,O., Denn,A.L., Ding,Y., Dinh,H.H.,  
Douthwaite,K.J., Draper,H., Dugan-Rocha,S., Durbin,K.J.,  
Earhart,C., Edgar,D., Edwards,C.C., Elhaj,C., Escotto,M.,  
Falls,T., Ferraguto,D., Flagg,N., Ford,J., Foster,P., Frantz,P.,  
Gabisi,A., Gao,J., Garcia,A., Garner,T., Garza,N., Gill,R.,  
Gorrell,J.H., Guevara,W., Gunaratne,P., Hale,S., Hamilton,K.,  
Harris,C., Harris,K., Hart,M., Havlak,P., Hawes,A., Hernandez,J.,  
Hernandez,O., Hodgson,A., Hogues,M., Holloway,C., Hollins,B.,  
Homsli,F., Howard,S., Huber,J., Hulyk,S., Hume,J., Jackson,L.E.,  
Jacobson,B., Jia,Y., Johnson,R., Jolivet,S., Joudah,S.,  
Karlssoon,E., Kelly,S., Khan,U., King,L., Korvah,J., Kovar,C.,  
Kratovic,J., Kureshi,A., Landry,N., Leal,B., Lewis,L.C., Lewis,L.,  
Li,J., Li,Z., Lichtarge,O., Lieu,C., Liu,J., Liu,W., Louisaged,H.,  
Lorado,R.J., Lu,X., Lucier,A., Lucier,R., Luna,R., Ma,J.,  
Maheshwari,M., Mapua,P., Martin,R., Martindale,A., Martinez,E.,  
Massey,E., Mawhiney,E., McLeod,M.P., Meador,M., Mei,G., Metzker,M.,  
Miner,G., Miner,Z., Mitchell,T., Mohabbat,K., Morgan,M., Morris,S.,  
Mosser,M., Neal,D., Newton,J., Newton,N., Nguyen,A., Nguyen,N.,  
Nguyen,N., Nickerson,E., Nwokenwo,S., Oguh,M., Okunolu,G.,  
Oragunye,N., Oviedo,R., Pace,A., Payton,B., Peery,J., Perez,L.,  
Peters,L., Pickens,R., Primus,E., Pu,L.L., Quiles,M., Ren,Y.,  
Rives,M., Rojas,A., Rojibokan,I., Rolfe,M., Ruiz,S., Savery,G.,  
Scherer,S., Scott,G., Shen,H., Shoohtari,N., Sisson,I.,  
Sodergren,E., Sonaika,T., Sparks,A., Stanley,H., Stone,H.,  
Sutton,A., Svatek,A., Tabor,P., Tamerisa,A., Tamerisa,K., Tang,H.,





GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: December 28, 2002, 16:48:37 ; Search time 53.0554 Seconds  
(without alignments)  
7664.697 Million cell updates/sec

Title: US-09-944-896-49\_COPY\_123\_1448

Perfect score: 1326  
Sequence: 1 atgtctcatccagagacaccc.....gaaacccgttacatctgccag 1326

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

- Database : Issued Patents.NA.\*
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  - 2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq.\*
  - 3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq.\*
  - 4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq.\*
  - 5: /cgn2\_6/ptodata/2/ina/PCTUS\_COMB.seq.\*
  - 6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length  | DB ID | Description        |
|------------|-------|-------------|---------|-------|--------------------|
| 1          | 672.8 | 50.7        | 690     | 4     | US-09-404-879A-321 |
| 2          | 47.8  | 3.6         | 582     | 4     | US-09-433-248A-3   |
| 3          | 43.4  | 3.3         | 1155    | 2     | US-08-387-942C-18  |
| 4          | 43.4  | 3.3         | 12588   | 5     | PCN-US95-03747-1   |
| 5          | 42.6  | 3.2         | 3259    | 5     | US-08-404-665-3    |
| 6          | 40.8  | 3.1         | 4724    | 1     | US-08-404-671-3    |
| 7          | 40.8  | 3.1         | 4724    | 1     | US-08-404-781-3    |
| 8          | 40.8  | 3.1         | 1176    | 2     | US-08-387-942C-17  |
| 9          | 39.4  | 3.0         | 4403765 | 4     | US-09-103-840A-2   |
| 10         | 39.2  | 3.0         | 1155    | 2     | US-08-387-942C-21  |
| 11         | 38.6  | 2.9         | 1155    | 2     | US-09-387-574-9    |
| 12         | 37.4  | 2.8         | 2335    | 4     | US-09-668-096-9    |
| 13         | 37.4  | 2.8         | 2335    | 4     | US-09-470-443-7    |
| 14         | 37.2  | 2.8         | 1070    | 4     | US-08-173-497-1    |
| 15         | 37.2  | 2.8         | 3726    | 1     | US-08-286-889-1    |
| 16         | 37.2  | 2.8         | 3726    | 1     | US-08-485-618-1    |
| 17         | 37.2  | 2.8         | 3726    | 1     | US-08-362-652-1    |
| 18         | 37.2  | 2.8         | 3726    | 1     | US-08-605-672-1    |
| 19         | 37.2  | 2.8         | 3726    | 2     | US-08-482-293A-1   |
| 20         | 37.2  | 2.8         | 3726    | 2     | US-08-943-363-1    |
| 21         | 37.2  | 2.8         | 3726    | 4     | US-09-193-043-1    |
| 22         | 37.2  | 2.8         | 3726    | 4     | US-09-688-307A-1   |
| 23         | 37.2  | 2.8         | 3726    | 1     | US-08-485-618-98   |
| 24         | 37.2  | 2.8         | 3785    | 1     | US-08-605-672-98   |
| 25         | 37.2  | 2.8         | 3785    | 2     | US-08-482-293A-98  |
| 26         | 37.2  | 2.8         | 3785    | 2     | US-08-943-363-98   |
| 27         | 37.2  | 2.8         | 3785    | 2     | US-08-943-363-98   |

|    |      |     |       |   |                   |                   |
|----|------|-----|-------|---|-------------------|-------------------|
| 28 | 37.2 | 2.8 | 3785  | 4 | US-09-193-043-98  | Sequence 98, Appl |
| 29 | 37.2 | 2.8 | 3785  | 4 | US-09-688-307A-98 | Sequence 98, Appl |
| 30 | 37.2 | 2.8 | 3956  | 1 | US-08-485-618-97  | Sequence 97, Appl |
| 31 | 37.2 | 2.8 | 3956  | 1 | US-08-605-672-97  | Sequence 97, Appl |
| 32 | 37.2 | 2.8 | 3956  | 2 | US-08-482-293A-97 | Sequence 97, Appl |
| 33 | 37.2 | 2.8 | 3956  | 2 | US-08-943-363-97  | Sequence 97, Appl |
| 34 | 37.2 | 2.8 | 3956  | 4 | US-09-193-043-97  | Sequence 97, Appl |
| 35 | 37.2 | 2.8 | 3956  | 4 | US-09-688-307A-97 | Sequence 12, Appl |
| 36 | 37   | 2.8 | 749   | 4 | US-09-257-883-2   | Sequence 61, Appl |
| 37 | 37   | 2.8 | 2348  | 4 | US-08-990-823-61  | Sequence 3, Appl  |
| 38 | 36.4 | 2.7 | 1227  | 3 | US-09-074-912-3   | Sequence 3, Appl  |
| 39 | 36.4 | 2.7 | 1227  | 4 | US-09-290-136-3   | Sequence 2, Appl  |
| 40 | 36.2 | 2.7 | 970   | 2 | US-08-773-368-2   | Sequence 2, Appl  |
| 41 | 36.2 | 2.7 | 970   | 3 | US-09-199-887-2   | Sequence 2, Appl  |
| 42 | 36.2 | 2.7 | 1436  | 4 | US-09-471-396-2   | Sequence 30, Appl |
| 43 | 36.2 | 2.7 | 13842 | 4 | US-09-105-537-30  | Sequence 5, Appl  |
| 44 | 36.2 | 2.7 | 36778 | 4 | US-09-105-537-5   | Sequence 19, Appl |
| 45 | 36.2 | 2.7 | 38506 | 3 | US-09-320-878-19  |                   |

ALIGNMENTS

RESULT 1  
US-09-404-879A-321  
; Sequence 321, Application US/09404879A  
; Patent No. 6468546  
; GENERAL INFORMATION:  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: King, Gordon E.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF OVARIAN CANCER  
; FILE REFERENCE: 210121.462C2  
; CURRENT APPLICATION NUMBER: US/09/404,879A  
; CURRENT FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 393  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 321  
; LENGTH: 690  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(690)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-404-879A-321

|                       |       |   |          |            |   |        |     |
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| Query Match           | 50.7% | Score   | 672.8    | DB         | 4 | Length | 690 |
| Best Local Similarity | 99.3% | Pred. No.   | 5.9e-153 |            |   |        |     |
| Matches               | 685   | Conservative  | 0        | Mismatches | 4 | Indels | 1   |
|                       |       |   |          |            |   | Gaps   | 1   |
| QY                    | 482   | TGGGCTGTGGCGGCACCTGTGCTCTGCAGGCCAGACGATAGAACCTTTTCTGTGTG    | 541      |            |   |        |     |
| Db                    | 1     | TGGGCTGTGGCGGCACCTGTGCTCTGCAGGCCAGACGATAGAACCTTTTCTGTGTG    | 60       |            |   |        |     |
| QY                    | 542   | CCCTACTCCCCGGAGGCACTGGGAGGTCAACGGAGACACATCATCCCTATAGAGG     | 601      |            |   |        |     |
| Db                    | 61    | CCCTACTCCCCGGAGGCACTGGGAGGTCAACGGAGACACATCATCCCTATAGAGG     | 120      |            |   |        |     |
| QY                    | 602   | GTGCTGTGTGCTGTGCTGTGACACGCTGTCTCAGGCTGTCTCAAGGCTTGGGACCATG  | 661      |            |   |        |     |
| Db                    | 121   | GTGCTGTGTGCTGTGCTGTGACACGCTGTCTCAGGCTGTCTCAAGGCTTGGGACCATG  | 180      |            |   |        |     |
| QY                    | 662   | CAGGGGGCTGTGTGAGGTCCCGAGGAATCCTTGTGCGATGAGTCCGACACCATGAC    | 721      |            |   |        |     |
| Db                    | 181   | CAGGGGGCTGTGTGAGGTCCCGAGGAATCCTTGTGCGATGAGTCCGACACCATGAC    | 240      |            |   |        |     |
| QY                    | 722   | GTCTCAACATCAGCACCTGCCACTGCCACTGTCCCTGTGCTACACGGCAGATGACTGCC | 781      |            |   |        |     |
| Db                    | 241   | GTCTCAACATCAGCACCTGCCACTGCCACTGTCCCTGTGCTACACGGCAGATGACTGCC | 300      |            |   |        |     |
| QY                    | 782   | AAGTGAGGTGACGCTGTGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG  | 841      |            |   |        |     |

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Db 301 AAGTGAGGTCACGCTGACGTGTGTGCACGCGCGGTTCGGGAGGAGGAGTGTCTGTCG 360
QY 842 TCTGTGACATCGGCTACGGGGGAGCCAGTGTGCCACCAAGGTTCATTTCCCTTCCACA 901
Db 361 TCTGTGACATCGGCTACGGGGGAGCCAGTGTGCCACCAAGGTTCATTTCCCTTCCACA 420
QY 902 CCTGTGACATCGGCTACGGGGGAGCCAGTGTGCCACCAAGGTTCATTTCCCTTCCACA 961
Db 421 CCTGTGACATCGGCTACGGGGGAGCCAGTGTGCCACCAAGGTTCATTTCCCTTCCACA 480
QY 962 ACAG-AGCCAGGATGAATGTTCAGAGGAAGCGGGGTGCTGCTCCAGAGGAGAGACCTATT 1020
Db 481 ACAGAGCCAGGATGAATGTTCAGAGGAAGCGGGGTGCTGCTCCAGAGGAGAGACCTATT 540
QY 1021 AAGTGAGGATCATCTCCCTTCTATCTGGGCGGCTGGAGACCAACCAAGAGGTGACT 1080
Db 541 AAGTGAGGATCATCTCCCTTCTATCTGGGCGGCTGGAGACCAACCAAGAGGTGACT 600
QY 1081 GACAGTGACTTTCGAGACCAAGGACTTCTGGATCGGGCTCACCTACAGAGGAGGAC 1140
Db 601 GACAGTGACTTTCGAGACCAAGGACTTCTGGATCGGGCTCACCTACAGAGGAGGAC 660
QY 1141 TCCTTCCGCTGGGCGGACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1170
Db 661 TCCTTNCGCTGGGCGGACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 690

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RESULT 2
US-09-433-248A-3
; Sequence 3, Application US/09433248A
; Patent No. 6355462
; GENERAL INFORMATION:
; APPLICANT: Falco, S. Carl
; APPLICANT: Famodu, Omolayo O.
; APPLICANT: Han, Feng
; APPLICANT: Rafalski, J. Antoni
; TITLE OF INVENTION: Disease Resistance Factors
; FILE REFERENCE: BB1252 US NA
; CURRENT APPLICATION NUMBER: US/09/433,248A
; PRIOR FILING DATE: 1999-11-04
; PRIOR APPLICATION NUMBER: 60/107,242
; PRIOR FILING DATE: 1998-11-05
; SOFTWARE: Microsoft Office 97
; NUMBER OF SEQ ID NOS: 8
; SEQ ID NO 3
; LENGTH: 582
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (337)
; NAME/KEY: unsure
; LOCATION: (370)
; NAME/KEY: unsure
; LOCATION: (421)
; NAME/KEY: unsure
; LOCATION: (437)
; NAME/KEY: unsure
; LOCATION: (481)
; NAME/KEY: unsure
; LOCATION: (484)
; NAME/KEY: unsure
; LOCATION: (502)
; NAME/KEY: unsure
; LOCATION: (511)
; NAME/KEY: unsure
; LOCATION: (542)
; NAME/KEY: unsure
; LOCATION: (547)
; NAME/KEY: unsure
; LOCATION: (564)
; NAME/KEY: unsure

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; LOCATION: (571)
US-09-433-248A-3
Query Match 3.6%; Score 47.8; DB 4; Length 582;
Best Local Similarity 50.2%; Pred. No. 0.01;
Matches 118; Conservative 0; Mismatches 117; Indels 0; Gaps 0;
QY 1088 ACTTCGAGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1147
Db 1 ACATCTCTGAACCGGACCATCGCATGGACACCTCCCAACAAGGCCACCTCCGACTACGTC 60
QY 1148 GCTGGGCGACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1207
Db 61 GCGAAGCCATCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
QY 1208 ACGGGCTGGTGTGGCTGAGTGTGCTGATGGGTTTGGCAACTGCGTGGAGCTGCAAGCTT 1267
Db 121 CCGGGCTGATGATCTGGACCCGTACGGCGGCGAGATCGGCGAGCGTGGCGGAGGCGGCA 180
QY 1268 CAGCTGCTTCAACTGGAAACGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1322
Db 181 CGCGTTCCCGCACCGGCGGCGTCTTACAAATCCAGTACATGAACCTTCTG 235

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RESULT 3
US-08-387-942C-18
; Sequence 18, Application US/08387942C
; Patent No. 593289
; GENERAL INFORMATION:
; APPLICANT: ERTESVAG, HELGA
; APPLICANT: VALLA, SVEIN
; APPLICANT: SKJAK-BRAEK, GUDMUND
; APPLICANT: LARSEN, BJORN
; TITLE OF INVENTION: DNA COMPOUNDS COMPRISING SEQUENCES
; TITLE OF INVENTION: ENCODING MANNURONAN C-5-EPIMERASE
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BIRCH, STEWART, KOLASCH & BIRCH, LLP
; STREET: P.O. BOX 747
; CITY: FALLS CHURCH
; STATE: VA
; COUNTRY: USA
; ZIP: 22042
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/387,942C
; FILING DATE: 09-MAY-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: MURPHY JR, GERALD M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1809-106P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-205-8000
; TELEFAX: 703-205-8050
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1155 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-387-942C-18

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Query Match 3.3%; Score 43.4; DB 2; Length 1155;
Best Local Similarity 49.8%; Pred. No. 0.14;
Matches 110; Conservative 0; Mismatches 111; Indels 0; Gaps 0;
QY 894 CTTCACACCTGTGACCTGAGATCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 953

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Db 297 CTTCCGATGAGCGACCTCGACGCAACCGGACCACTCTCCGCCAAGTCGA 356  
QY 954 CACCTATTACAGACGAGATGAATGTGAGAGAAAGCGGGGTGCTGGCCCGAGATCAA 1013  
Db 357 CGGCTGGTTCAACGGCTACATCCCGGCCAGGACGCGCGGATCGGAGGTGACCCCTGGA 416  
QY 1014 GAGCCAGAAAGTGCAGGACATCTCGCCTTCTATCTGCGCGCTGAGACCAACCAACGA 1073  
Db 417 CGGGTGAATCCGGAGATGTCGGCTACGGTTTCGACCCCGCCAGAGACCATCAA 476  
QY 1074 GGTGACTGACAGTCTTCTGAGACCAAGAACTTCTGGATCG 1114  
Db 477 CCGTACGATCCGACAGCGGTGGCCCAACGACACACGCTCG 517

RESULT 4  
US-08-387-942C-1  
; Sequence 1, Application US/08387942C  
; Patent No. 5939289  
; GENERAL INFORMATION:  
; APPLICANT: ERTESVAG, HELGA  
; APPLICANT: VALLA, SVEIN  
; APPLICANT: SKJAK-BRAEK, GUDMUND  
; APPLICANT: LARSEN, BJORN  
; TITLE OF INVENTION: DNA COMPOUNDS COMPRISING SEQUENCES  
; TITLE OF INVENTION: ENCODING MANNURONAN C-5-EPIMERASE  
; NUMBER OF SEQUENCES: 52  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: BIRCH, STEWART, KOLASCH & BIRCH, LLP  
; STREET: P.O. BOX 747  
; CITY: FALLS CHURCH  
; STATE: VA  
; COUNTRY: USA  
; ZIP: 22042

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/387,942C  
; FILING DATE: 09-MAY-1995  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: MURPHY JR, GERALD M.  
; REGISTRATION NUMBER: 28,977  
; REFERENCE/DOCKET NUMBER: 1809-106P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 703-205-8000  
; TELEFAX: 703-205-8050  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 12588 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; ORIGINAL SOURCE:  
; ORGANISM: Azotobacter vinelandii  
; STRAIN: E  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 290..1951  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 2227..6438  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 6702..9695  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 9973..12588

US-08-387-942C-1

Query Match 3.3%; Score 43.4; DB 2; Length 12588;  
Best Local Similarity 49.8%; Pred. No. 0.27;  
Matches 110; Conservative 0; Mismatches 111; Indels 0; Gaps 0;  
QY 894 CTTCCACACCTGTGACCTGAGGATCGACGGAGACTGCTTCATGGTGTCTTCAGAGCGAGA 953  
Db 2523 CTTCCGATGAGCGACCTGACCTCGACGGCAACCGGCAACCTGTCGCCCAAGTCGA 2582  
QY 954 CACCTATTACAGACGAGATGAATGTGAGAGAAAGCGGGGTGCTGGCCCGAGATCAA 1013  
Db 2583 CGGCTGGTTCAACGGCTACATCCCGGCCAGGACGCGCGGATCGGAGGTGACCCCTGGA 2642  
QY 1014 GAGCCAGAAAGTGCAGGACATCTCGCCTTCTATCTGCGCGCGCTGAGACCAACCAACGA 1073  
Db 2643 GCGGTGGAATCCCGGAGATGTCGGGTACGGTTTCGACCCCGCCAGAGACCATCAA 2702  
QY 1074 GGTGACTGACAGTCTTCTGAGACCAAGAACTTCTGGATCG 1114  
Db 2703 CCGTACGATCCGACAGCGGTGGCCCAACGACACGCTCG 2743

RESULT 5  
PCT-US95-03747-1  
; Sequence 1, Application PC/TUS9503747  
; GENERAL INFORMATION:  
; APPLICANT: LA JOLLA CANCER RESEARCH FOUNDATION  
; TITLE OF INVENTION: Brevicin, A Glial Cell Proteoglycan  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Campbell and Flores  
; STREET: 4370 La Jolla Village Drive, Suite 700  
; CITY: San Diego  
; STATE: California  
; COUNTRY: USA  
; ZIP: 92122  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/03747  
; FILING DATE: 27-MAR-1995  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Imbra, Richard J.  
; REGISTRATION NUMBER: 37,643  
; REFERENCE/DOCKET NUMBER: FP-LJ 1453  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (619) 535-9001  
; TELEFAX: (619) 535-8949  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3259 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 112..2848  
; PCT-US95-03747-1

Query Match 3.2%; Score 42.6; DB 5; Length 3259;  
Best Local Similarity 53.0%; Pred. No. 0.28;  
Matches 115; Conservative 0; Mismatches 99; Indels 3; Gaps 1;  
QY 822 CGAGAGGAGTGTCTGCTGGTGTGTGACATCGGCTACGGGGAGAGCCAGTGTGCCACCAA 881  
Db 2106 GGAGAGGGGGTCCCGCTGTGTTGCTGTATGGGGGACCTGTGCGATGTGG 2165  
QY 882 GGTGATTTTCCCTTCCACACCTGTGACCTGAGGATCGAGGAGACTGCTTCATGTGTC 941

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Db 2166 CTTCCACTTCTGAGCCCGGTTGGAC-----GCTTCCAGGGTGCCTGCTACAAGCACTT 2222
Qy 942 TTCAGAGGCACACCTATTACAGAGCCAGGATGAATGTGACAGAGAAAGCGGGGTGCT 1001
Db 2223 TTCTGCCGAGGAGCTGGGAGAGCGGAGACAAAGTCGCGGATGTACGCGGCACCT 2282
Qy 1002 GCGCCAGATCAGAGCCAGCAAAAGTGCAGGACATCCTC 1038
Db 2283 GCGCAGCATCAGCAGCCGCGGAGGAACAGGACTTCATC 2319

RESULT 6
US-08-404-665-3
; Sequence 3, Application US/08404665
; Patent No. 5591583
; GENERAL INFORMATION:
; APPLICANT: Reid, Robert A.
; APPLICANT: Ackley, Rhonda L.
; APPLICANT: Hemperly, John J.
; TITLE OF INVENTION: HUMAN RESTRICTIN AND NUCLEIC ACID
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Richard J. Rodrick, Becton Dickinson and
; COMPANY:
; STREET: 1 Becton Drive
; CITY: Franklin Lakes
; STATE: NJ
; COUNTRY: US
; ZIP: 07417
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/404,665
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Fugit, Donna R.
; REGISTRATION NUMBER: 32,135
; REFERENCE/DOCKET NUMBER: P-3341
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4724 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; US-08-404-665-3

Query Match 3.1%; Score 40.8; DB 1; Length 4724;
Best Local Similarity 52.3%; Pred. No. 0.85;
Matches 90; Conservative 0; Mismatches 82; Indels 0; Gaps 0;

Qy 705 CTGCCAGAACCACTGAGCGTCTCAACATCAGCACCTGCCACTGTCCCTGGCTA 764
Db 987 CTGAGTGGCCAGCACTTTAGCTTGTGCTGCATCTGCACAGAGGCTG 1046
Qy 765 CACGGGCGAGTACTGCCAAGTGCAGCGTGCAGTGTGTGCAGCGCGGTTCCGGGA 824
Db 1047 GTTTGGCAAGAATTGCTCGAGCGCCCTACTGCCCGTGGGTGCTCCAGCGGGGGTGTG 1106
Qy 825 GGAGGAGTCTCGTGGTGTGCATCGCTACGGGGGAGCCAGTGTGCC 876
Db 1107 TGTGGATGCCAGTGCATCTGTGACAGCGAGTACAGCGGGGATGACTGTTC 1158

RESULT 7
US-08-404-671-3
; Sequence 3, Application US/08404671
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; Patent No. 5635360
; GENERAL INFORMATION:
; APPLICANT: Reid, Robert A.
; APPLICANT: Ackley, Rhonda L.
; APPLICANT: Hemperly, John J.
; TITLE OF INVENTION: HUMAN RESTRICTIN AND NUCLEIC ACID
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Richard J. Rodrick, Becton Dickinson and
; COMPANY:
; STREET: 1 Becton Drive
; CITY: Franklin Lakes
; STATE: NJ
; COUNTRY: US
; ZIP: 07417
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/404,671
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Fugit, Donna R.
; REGISTRATION NUMBER: 32,135
; REFERENCE/DOCKET NUMBER: P-3341
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4724 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; US-08-404-671-3

Query Match 3.1%; Score 40.8; DB 1; Length 4724;
Best Local Similarity 52.3%; Pred. No. 0.85;
Matches 90; Conservative 0; Mismatches 82; Indels 0; Gaps 0;

Qy 705 CTGCCAGAACCACTGAGCGTCTCAACATCAGCACCTGCCACTGTCCCTGGCTA 764
Db 987 CTGAGTGGCCAGCACTTTAGCTTGTGCTGCATCTGCACAGAGGCTG 1046
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Db 1047 GTTTGGCAAGAATTGCTCGAGCGCCCTACTGCCCGTGGGTGCTCCAGCGGGGGTGTG 1106
Qy 825 GGAGGAGTCTCGTGGTGTGCATCGCTACGGGGGAGCCAGTGTGCC 876
Db 1107 TGTGGATGCCAGTGCATCTGTGACAGCGAGTACAGCGGGGATGACTGTTC 1158

RESULT 8
US-08-404-781-3
; Sequence 3, Application US/08404781
; Patent No. 5681931
; GENERAL INFORMATION:
; APPLICANT: Reid, Robert A.
; APPLICANT: Ackley, Rhonda L.
; APPLICANT: Hemperly, John J.
; TITLE OF INVENTION: HUMAN RESTRICTIN AND NUCLEIC ACID
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Richard J. Rodrick, Becton Dickinson and
; COMPANY:
; STREET: 1 Becton Drive
; CITY: Franklin Lakes
; STATE: NJ
; COUNTRY: US
```



; Sequence 21, Application US/08387942C  
; Patent No. 5939289  
; GENERAL INFORMATION:  
; APPLICANT: ERTESVAG, HELGA  
; APPLICANT: VALLA, SVEIN  
; APPLICANT: SKJAK-BRAEK, GUDMUND  
; APPLICANT: LARSEN, BJORN  
; TITLE OF INVENTION: DNA COMPOUNDS COMPRISING SEQUENCES  
; TITLE OF INVENTION: ENCODING MANNURONAN C-5-EPIMERASE  
; NUMBER OF SEQUENCES: 52  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: BIRCH, STEWART, KOLASCH & BIRCH, LLP  
; STREET: P.O. BOX 747  
; CITY: FALLS CHURCH  
; STATE: VA  
; COUNTRY: USA  
; ZIP: 22042  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/387,942C  
; FILING DATE: 09-MAY-1995  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: MURPHY JR, GERALD M.  
; REGISTRATION NUMBER: 28,977  
; REFERENCE/DOCKET NUMBER: 1809-106P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 703-205-8000  
; TELEFAX: 703-205-8050  
; INFORMATION FOR SEQ ID NO: 21:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1155 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-08-387-942C-21

Query Match 2.9%; Score 38.6; DB 2; Length 1155;  
Best Local Similarity 48.4%; Pred. No. 2;  
Matches 107; Conservative 0; Mismatches 114; Indels 0; Gaps 0;  
  
QY 894 CTTCCACACCTGTGACCTGAGGATCGACGAGACTGCTTTCATGTGTCTTCAGAGGCAGA 953  
DB 297 CTTGGCATGAGGACCTGACCTCGACGGAACCGGACAACTGTCCGCCAAGGTGCA 356  
  
QY 954 CACCTATTACAGAGCCAGGATGAAATGTCAGAGGAAAGCGGGGTGCTGGCCCCAGATCAA 1013  
DB 357 CGGCTGTTCAACGGCTACATTCCCGCCAGGACGGTCCGATCGGACGTGACCCCTGGA 416  
  
QY 1014 GAGCCAGAAGTCAGACATCTCTCGCTTCTATCTGGCGCGCTGGAGACCAACCAAGA 1073  
DB 417 GCGGGTGGAAATCCGGGAATGTCGGTTTACGGTTTCGATCCGCACGAGACCATCAA 476  
  
QY 1074 GTGACTGACAGTGACTTCAGAGACCAAGAACTTCTGGATCG 1114  
DB 477 CTTGACGATCCCGGACAGCTGGCCACAGACACGGGCTCG 517

RESULT 12  
US-09-387-574-9  
; Sequence 9, Application US/09387574  
; Patent No. 6188951  
; GENERAL INFORMATION:  
; APPLICANT: Cahoon, Rebecca E.  
; APPLICANT: Kinney, Tony  
; APPLICANT: Rafalski, Antoni  
; TITLE OF INVENTION: Plant Geranylgeranyl Transferases  
; FILE REFERENCE: BB-1239

; CURRENT APPLICATION NUMBER: US/09/387,574  
; CURRENT FILING DATE: 1999-08-31  
; EARLIER APPLICATION NUMBER: 60/098,743  
; EARLIER FILING DATE: September 1, 1998  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: Microsoft Office 97  
; SEQ ID NO 9  
; LENGTH: 2335  
; TYPE: DNA  
; ORGANISM: Oryza sativa  
US-09-387-574-9

Query Match 2.8%; Score 37.4; DB 4; Length 2335;  
Best Local Similarity 51.5%; Pred. No. 4.6;  
Matches 86; Conservative 0; Mismatches 81; Indels 0; Gaps 0;  
  
QY 1059 GGAGACCACCAACGAGGTGACTGACAGTCTTCGAGACACGAGAACTTCTGGATCGGGCT 1118  
DB 675 GGACACCACCTTCAGCTCAGGAGAGAAGAACTACTCTTCAGGTTCTTCAAGCTTGTGCA 734  
  
QY 1119 CACCTACAAGACCGCCCAAGGACTCCTTCGGTGGGCCACAGGGGAGCACACCGCCTTAC 1178  
DB 735 GGCCACATTGCGCGCTCGGCTGCGCGCGCCGCCGCGGGAAGGAGGAGGCTCCGG 794  
  
QY 1179 CAGTTTTCCTTTGGGAGAGCTGACAAACACACGGGCTGGTGTGCTGA 1225  
DB 795 TAGGCTGCCGATGAGGACCTGACCTCCCTTCGCGAATTCCTCA 841

RESULT 13  
US-09-668-096-9  
; Sequence 9, Application US/09668096  
; Patent No. 6312954  
; GENERAL INFORMATION:  
; APPLICANT: Cahoon, Rebecca E.  
; APPLICANT: Kinney, Tony  
; APPLICANT: Rafalski, Antoni  
; TITLE OF INVENTION: Plant Geranylgeranyl Transferases  
; FILE REFERENCE: BB1239 US NA DIV  
; CURRENT APPLICATION NUMBER: US/09/668,096  
; CURRENT FILING DATE: 2000-09-22  
; PRIOR APPLICATION NUMBER: 60/098,743  
; PRIOR FILING DATE: 1998-09-01  
; PRIOR APPLICATION NUMBER: 09/387,534  
; PRIOR FILING DATE: 1999-08-31  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: Microsoft Office 97  
; SEQ ID NO 9  
; LENGTH: 2335  
; TYPE: DNA  
; ORGANISM: Oryza sativa  
US-09-668-096-9

Query Match 2.8%; Score 37.4; DB 4; Length 2335;  
Best Local Similarity 51.5%; Pred. No. 4.6;  
Matches 86; Conservative 0; Mismatches 81; Indels 0; Gaps 0;  
  
QY 1059 GGAGACCACCAACGAGGTGACTGACAGTCTTCGAGACACGAGAACTTCTGGATCGGGCT 1118  
DB 675 GGACACCACCTTCAGCTCAGGAGAGAAGAACTACTCTTCAGGTTCTTCAAGCTTGTGCA 734  
  
QY 1119 CACCTACAAGACCGCCCAAGGACTCCTTCGGTGGGCCACAGGGGAGCACACCGCCTTAC 1178  
DB 735 GGCCACATTGCGCGCTCGGCTGCGCGCGCCGCCGCGGGAAGGAGGAGGCTCCGG 794  
  
QY 1179 CAGTTTTCCTTTGGGAGAGCTGACAAACACACGGGCTGGTGTGCTGA 1225  
DB 795 TAGGCTGCCGATGAGGACCTGACCTCCCTTCGCGAATTCCTCA 841

RESULT 14  
US-09-470-443-7  
; Sequence 7, Application US/09470443

Patent No. 6441156  
; GENERAL INFORMATION:  
; APPLICANT: Lerman, Michael I.  
; APPLICANT: Minna, John D.  
; APPLICANT: Latif, Farida  
; APPLICANT: Wei, Ming-Hui  
; APPLICANT: Sekido, Yoshitaka  
; APPLICANT: Gao, Boning  
; APPLICANT: Duh, Fuh-Mei  
; TITLE OF INVENTION: Calcium Channel Compositions and Methods of Use Thereof  
; FILE REFERENCE: NIH-05043  
; CURRENT APPLICATION NUMBER: US/09/470,443  
; CURRENT FILING DATE: 1999-12-22  
; EARLIER APPLICATION NUMBER: 60/114,359  
; EARLIER FILING DATE: 1998-12-30  
; NUMBER OF SEQ ID NOS: 114  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 7  
; LENGTH: 1070  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-470-443-7

Query Match 2.8%; Score 37.2; DB 4; Length 1070;  
Best Local Similarity 46.0%; Pred. No. 4.2;  
Matches 126; Conservative 0; Mismatches 148; Indels 0; Gaps 0;  
QY 250 GCAGGCGACCTCTGTGGAATCCCAACCCCGAGCCTGGCATCCGGCGCTGTGGCGCAC 309  
Db 743 GGTGG 802  
QY 310 CTGAAGTGGGCTGGAAATGCAATGCACTGCTGCCCGCGGGCTTGGCGTCTCTTTGTTGAAGTG 369  
Db 803 CTGTGCTGTGTGCTGGCGCTTCTACCGCTGCTGCCCGGGGGGGGGGGGGGGGGGGGG 862  
QY 370 GTACGCTTATGTTTTCAGAGGGGCGAGCGGTACAGCCAGCGGCGAGGAGAGTGTGCTGCG 429  
Db 863 TTCCCGCAGCAGCAGCAGCAGTAAAGTGGCTGCGGCGCGCGGAGAGCCCGGGAGCCTTGC 922  
QY 430 AAGCGACCTGACCCACTACAGCAGCTGCTGTGGGCCACCTCAAGCAGCTGGGCTGT 489  
Db 923 GCGCGGCTGTGCGCGGGTCCGGGCTACTCTTCCCTGCGCTCCGCGCCAGGCGAGAGGC 982  
QY 490 GGGCGGCACCTGTGCTGTGCGAGGCGACAGACGCA 523  
Db 983 GCTGGTCCGGCTGCCCGCTGCCCGGGGGGCGA 1016

RESULT 15  
US-08-173-497-1  
; Sequence 1, Application US/08173497  
; Patent No. 5437958  
; GENERAL INFORMATION:  
; APPLICANT: Gallatin, W. Michael  
; APPLICANT: Van Der Vieren, Monica  
; TITLE OF INVENTION: No. 5437958el Human 2 Integrin Alpha  
; TITLE OF INVENTION: Subunit  
; NUMBER OF SEQUENCES: 29  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
; STREET: 233 S. Wacker Drive, 6300 Sears Tower  
; CITY: Chicago  
; STATE: Illinois  
; COUNTRY: USA  
; ZIP: 60606-6402  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/173,497  
; FILING DATE:

; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: No. 5437958and, Greta E.  
; REGISTRATION NUMBER: 35,302  
; REFERENCE/DOCKET NUMBER: 27866/31363  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 312-474-6300  
; TELEFAX: 312-474-0448  
; TELEX: 25-3856  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3726 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 3..3485  
US-08-173-497-1  
Query Match 2.8%; Score 37.2; DB 1; Length 3726;  
Best Local Similarity 56.6%; Pred. No. 5.9;  
Matches 69; Conservative 0; Mismatches 53; Indels 0; Gaps 0;  
QY 297 CCTGTGGCGCACCCCTGCAAGTGGGCTGGAACATGCAGCTGCTGCCCGGGGCTTGGCGTC 356  
Db 2375 CGTGGGAGCTCCCTGGAGCTCAACGTGATGTGTGGAACGAGGTGAGGATTC 2434  
QY 357 CTTTGTGAAGTGGTCAGCCTATGTTTGCAGAGGGGCGAGCGGTACAGCCAGCGGCGAGG 416  
Db 2435 CTACGGAACCGTGGTCAAGCTCTACTATATCCAGCAGGCGCTGCGCAGCGGGGTGTCAGG 2494  
QY 417 AG 418  
Db 2495 AG 2496  
Search completed: December 28, 2002, 21:38:49  
Job time : 1461.06 secs



GenCore version 5.1.3

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OM nucleic - nucleic search, using sw model

Run on: December 28, 2002, 21:39:38 ; Search time 4743 Seconds  
(without alignments)  
11511.040 Million cell updates/sec

Title: US-09-944-896-49

Perfect score: 1876

Sequence: 1 cttctttgtccaccagccca.....tcagctgaaaaaaaaaaaaa 1876

Scoring table: OLIGO\_NUC  
Gapop 60.0 , Gapext 60.0

Searched: 2054640 seqs, 14551402878 residues

Word size : 10

Total number of hits satisfying chosen parameters: 2077837

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Database :

GenEmbl:\*

1: gb.ba.\*

2: gb.htg.\*

3: gb.in.\*

4: gb.om.\*

5: gb.ov.\*

6: gb.pat.\*

7: gb.ph.\*

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21: em.or.\*

22: em.ov.\*

23: em.pat.\*

24: em.ph.\*

25: em.pl.\*

26: em.ro.\*

27: em.sts.\*

28: em.un.\*

29: em.vi.\*

30: em.htg.hum.\*

31: em.htg.inv.\*

32: em.htg.other.\*

33: em.htg.mus.\*

34: em.htg.pin.\*

35: em.htg.rod.\*

36: em.htg.mam.\*

37: em.htg.vrt.\*

38: em.sy.\*

39: em.htgo.hum.\*

40: em.htgo.mus.\*

41: em.htgo.other.\*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

| Result<br>No. | Score | Query<br>Match | Length | DB | ID        | Description        |
|---------------|-------|----------------|--------|----|-----------|--------------------|
| 1             | 1029  | 54.9           | 1775   | 6  | AX191503  | AX191503 Sequence  |
| 2             | 1008  | 53.7           | 1341   | 6  | AX191493  | AX191493 Sequence  |
| 3             | 485   | 25.9           | 690    | 6  | AX366554  | AX366554 Sequence  |
| 4             | 483   | 25.7           | 3293   | 9  | HSN804652 | AL833339 Homo sapi |
| 5             | 414   | 22.1           | 163427 | 9  | AC009053  | AC009053 Homo sapi |
| 6             | 414   | 22.1           | 177479 | 9  | AC009153  | AC009153 Homo sapi |
| 7             | 414   | 22.1           | 197460 | 2  | AC126771  | AC126771 Homo sapi |
| 8             | 336   | 17.9           | 179675 | 9  | AC026468  | AC026468 Homo sapi |
| 9             | 336   | 17.9           | 190595 | 9  | AC009022  | AC009022 Homo sapi |
| 10            | 323   | 17.2           | 1328   | 9  | BC008616  | BC008616 Homo sapi |
| 11            | 287   | 15.3           | 191108 | 2  | AC097265  | AC097265 Pan trogl |
| 12            | 285   | 15.2           | 180596 | 9  | AC009060  | AC009060 Homo sapi |
| 13            | 195   | 10.4           | 200409 | 2  | AC097331  | AC097331 Pan trogl |
| 14            | 195   | 10.4           | 204182 | 2  | AC097271  | AC097271 Pan trogl |
| 15            | 190   | 10.1           | 205044 | 2  | AC009125  | AC009125 Homo sapi |
| 16            | 123   | 6.6            | 79023  | 2  | AC021951  | AC021951 Homo sapi |
| 17            | 115   | 6.1            | 2900   | 9  | AB060195  | AB060195 Macaca fa |
| 18            | 115   | 6.1            | 200409 | 2  | AC097331  | AC097331 Pan trogl |
| 19            | 109   | 5.8            | 205044 | 2  | AC009125  | AC009125 Homo sapi |
| 20            | 95    | 5.1            | 2340   | 9  | AK096051  | AK096051 Homo sapi |
| 21            | 79    | 4.2            | 79023  | 2  | AC021951  | AC021951 Homo sapi |
| 22            | 44    | 2.3            | 200755 | 2  | AC093451  | AC093451 Mus muscu |
| 23            | 34    | 1.8            | 197326 | 2  | AC098076  | AC098076 Rattus no |
| 24            | 23    | 1.2            | 12977  | 1  | AE005865  | AE005865 Caulobact |
| 25            | 22    | 1.2            | 98517  | 9  | HS36623   | AL021331 Human DNA |
| 26            | 22    | 1.2            | 110000 | 2  | HS171M.1  | Continuation (2 of |
| 27            | 22    | 1.2            | 134151 | 2  | AC079318  | AC079318 Homo sapi |
| 28            | 22    | 1.2            | 165645 | 2  | AC125935  | AC125935 Rattus no |
| 29            | 22    | 1.2            | 178413 | 2  | AL805954  | AL805954 Mus muscu |
| 30            | 22    | 1.2            | 189456 | 9  | AC079905  | AC079905 Homo sapi |
| 31            | 22    | 1.2            | 191494 | 10 | AL591488  | AL591488 Mouse DNA |
| 32            | 22    | 1.2            | 205272 | 2  | AL353591  | AL353591 Homo sapi |
| 33            | 22    | 1.2            | 208613 | 2  | AC093464  | AC093464 Mus muscu |
| 34            | 22    | 1.2            | 223898 | 2  | AC124604  | AC124604 Mus muscu |
| 35            | 22    | 1.2            | 264522 | 2  | AC090437  | AC090437 Mus muscu |
| 36            | 22    | 1.2            | 340000 | 9  | HS21C102  | AL163302 Homo sapi |
| 37            | 21    | 1.1            | 1050   | 9  | BC033766  | BC033766 Homo sapi |
| 38            | 21    | 1.1            | 5061   | 1  | RLE431175 | AJ431175 Rhizobium |
| 39            | 21    | 1.1            | 7215   | 9  | HSU22027  | U22027 Human cyto  |
| 40            | 21    | 1.1            | 7216   | 6  | A47885    | A47885 Sequence 3  |
| 41            | 21    | 1.1            | 7216   | 6  | AR069321  | AR069321 Sequence  |
| 42            | 21    | 1.1            | 8778   | 9  | HSU22028  | U22028 Human cyto  |
| 43            | 21    | 1.1            | 8779   | 6  | A47886    | A47886 Sequence 4  |
| 44            | 21    | 1.1            | 8779   | 6  | AR069322  | AR069322 Sequence  |
| 45            | 21    | 1.1            | 30826  | 9  | AL807743  | AL807743 Human DNA |
| 46            | 21    | 1.1            | 73198  | 9  | HSU2127L3 | AL096793 Human DNA |
| 47            | 21    | 1.1            | 95359  | 9  | AC078903  | AC078903 Homo sapi |
| 48            | 21    | 1.1            | 105448 | 9  | AC010494  | AC010494 Homo sapi |
| 49            | 21    | 1.1            | 119707 | 2  | AL773521  | AL773521 Sus scro  |
| 50            | 21    | 1.1            | 126895 | 2  | AL773562  | AL773562 Sus scro  |
| 51            | 21    | 1.1            | 129402 | 9  | AC011510  | AC011510 Homo sapi |
| 52            | 21    | 1.1            | 131112 | 9  | AL157712  | AL157712 Human DNA |
| 53            | 21    | 1.1            | 141589 | 9  | HS117P20  | AL021940 Homo sapi |
| 54            | 21    | 1.1            | 150835 | 2  | AC122336  | AC122336 Mus muscu |
| 55            | 21    | 1.1            | 151630 | 2  | AC012527  | AC012527 Homo sapi |
| 56            | 21    | 1.1            | 154169 | 9  | AC008962  | AC008962 Homo sapi |
| 57            | 21    | 1.1            | 155132 | 2  | AC080148  | AC080148 Homo sapi |
| 58            | 21    | 1.1            | 155526 | 2  | AC013371  | AC013371 Homo sapi |
| 59            | 21    | 1.1            | 157285 | 2  | AC099319  | AC099319 Felis cat |
| 60            | 21    | 1.1            | 157493 | 2  | AC027068  | AC027068 Homo sapi |
| 61            | 21    | 1.1            | 164011 | 2  | AC125556  | AC125556 Rattus no |
| 62            | 21    | 1.1            | 168532 | 2  | AC119698  | AC119698 Rattus no |
| 63            | 21    | 1.1            | 169089 | 9  | AC008537  | AC008537 Homo sapi |
| 64            | 21    | 1.1            | 173085 | 2  | AC127524  | AC127524 Homo sapi |
| 65            | 21    | 1.1            | 173127 | 2  | AC125141  | AC125141 Mus muscu |

|     |    |     |        |    |            |                     |       |    |     |        |    |          |                    |
|-----|----|-----|--------|----|------------|---------------------|-------|----|-----|--------|----|----------|--------------------|
| 66  | 21 | 1.1 | 173251 | 2  | AC058798   | AC058798 Homo sapi  | c 139 | 20 | 1.1 | 165228 | 9  | CNS01DWS | AL138479 Human chr |
| 67  | 21 | 1.1 | 173804 | 9  | HS1030M6   | AL035089 Human DNA  | 140   | 20 | 1.1 | 165704 | 9  | AC012507 | AC012507 Homo sapi |
| 68  | 21 | 1.1 | 176034 | 2  | AC123323   | AC123323 Rattus no  | c 141 | 20 | 1.1 | 166697 | 2  | AC115290 | AC115290 Mus muscu |
| 69  | 21 | 1.1 | 176054 | 2  | AC023377   | AC023377 Homo sapi  | 142   | 20 | 1.1 | 167026 | 9  | AP002783 | AP002783 Homo sapi |
| 70  | 21 | 1.1 | 176759 | 2  | AC037464   | AC037464 Homo sapi  | 143   | 20 | 1.1 | 167849 | 2  | AC017001 | AC017001 Homo sapi |
| 71  | 21 | 1.1 | 178548 | 9  | AC018831   | AC018831 Homo sapi  | c 144 | 20 | 1.1 | 167871 | 2  | AC099705 | AC099705 Mus muscu |
| 72  | 21 | 1.1 | 178886 | 2  | AC116832   | AC116832 Mus muscu  | c 145 | 20 | 1.1 | 168703 | 4  | AC091759 | AC091759 Sus scrof |
| 73  | 21 | 1.1 | 179237 | 2  | AC111287   | AC111287 Rattus no  | c 146 | 20 | 1.1 | 169784 | 2  | AC072042 | AC072042 Homo sapi |
| 74  | 21 | 1.1 | 183231 | 2  | AC113785   | AC113785 Rattus no  | c 147 | 20 | 1.1 | 170064 | 2  | AC095307 | AC095307 Rattus no |
| 75  | 21 | 1.1 | 186968 | 2  | AC007917   | AC007917 Homo sapi  | 148   | 20 | 1.1 | 170261 | 2  | AC098542 | AC098542 Homo sapi |
| 76  | 21 | 1.1 | 190033 | 2  | AC019349   | AC019349 Homo sapi  | c 149 | 20 | 1.1 | 170517 | 2  | AC069526 | AC069526 Homo sapi |
| 77  | 21 | 1.1 | 196044 | 9  | AC018505   | AC018505 Homo sapi  | c 150 | 20 | 1.1 | 170668 | 9  | AC104012 | AC104012 Homo sapi |
| 78  | 21 | 1.1 | 198597 | 2  | AC026218   | AC026218 Homo sapi  | 151   | 20 | 1.1 | 170925 | 2  | AC111655 | AC111655 Rattus no |
| 79  | 21 | 1.1 | 200836 | 2  | AC011965   | AC011965 Homo sapi  | 152   | 20 | 1.1 | 171585 | 2  | AC127472 | AC127472 Sus scrof |
| 80  | 21 | 1.1 | 202844 | 9  | AC090956   | AC090956 Homo sapi  | c 153 | 20 | 1.1 | 172489 | 2  | AC128579 | AC128579 Rattus no |
| 81  | 21 | 1.1 | 207722 | 2  | AL732526   | AL732526 Mus muscu  | c 154 | 20 | 1.1 | 172677 | 2  | AC096039 | AC096039 Rattus no |
| 82  | 21 | 1.1 | 209876 | 9  | AC011599   | AC011599 Homo sapi  | c 155 | 20 | 1.1 | 172953 | 9  | AC067721 | AC067721 Homo sapi |
| 83  | 21 | 1.1 | 219337 | 2  | AC073291   | AC073291 Mus muscu  | c 156 | 20 | 1.1 | 173391 | 9  | AC090063 | AC090063 Homo sapi |
| 84  | 21 | 1.1 | 220678 | 2  | AC023857   | AC023857 Homo sapi  | c 157 | 20 | 1.1 | 175115 | 9  | AC069246 | AC069246 Homo sapi |
| 85  | 21 | 1.1 | 223407 | 2  | AC023387   | AC023387 Homo sapi  | c 158 | 20 | 1.1 | 175245 | 2  | AC130090 | AC130090 Rattus no |
| 86  | 21 | 1.1 | 229402 | 2  | AC069271   | AC069271 Homo sapi  | c 159 | 20 | 1.1 | 175368 | 9  | CNS01DWF | AL137164 Human chr |
| 87  | 21 | 1.1 | 237613 | 2  | AC025769   | AC025769 Homo sapi  | c 160 | 20 | 1.1 | 176174 | 9  | AC007483 | AC007483 Homo sapi |
| 88  | 21 | 1.1 | 245520 | 2  | AC127341   | AC127341 Mus muscu  | c 161 | 20 | 1.1 | 176355 | 9  | AC025518 | AC025518 Homo sapi |
| 89  | 20 | 1.1 | 737    | 6  | E06782     | E06782 cDNA contai  | c 162 | 20 | 1.1 | 176417 | 2  | AC024160 | AC024160 Homo sapi |
| 90  | 20 | 1.1 | 1189   | 10 | BC021951   | BC021951 Mus muscu  | c 163 | 20 | 1.1 | 177555 | 2  | AC130192 | AC130192 Sus scrof |
| 91  | 20 | 1.1 | 1526   | 9  | IR0268071  | IR0268071 Homo sapi | c 164 | 20 | 1.1 | 177784 | 9  | AC027465 | AC027465 Homo sapi |
| 92  | 20 | 1.1 | 3552   | 10 | BC034508   | BC034508 Mus muscu  | c 165 | 20 | 1.1 | 179217 | 2  | AC099748 | AC099748 Bos tauru |
| 93  | 20 | 1.1 | 7035   | 10 | AB030238   | AB030238 Rattus no  | c 166 | 20 | 1.1 | 179270 | 2  | AC110145 | AC110145 Rattus no |
| 94  | 20 | 1.1 | 9596   | 4  | BTA300468  | BTA300468 Bos tauru | c 167 | 20 | 1.1 | 180487 | 2  | AC113328 | AC113328 Bos tauru |
| 95  | 20 | 1.1 | 32415  | 10 | HAMSHCA    | L15351 Mesocricetu  | c 168 | 20 | 1.1 | 181650 | 2  | AC124478 | AC124478 Mus muscu |
| 96  | 20 | 1.1 | 40158  | 2  | AC103711   | AC103711 Homo sapi  | c 169 | 20 | 1.1 | 182171 | 9  | AC066589 | AC066589 Homo sapi |
| 97  | 20 | 1.1 | 57963  | 9  | AC023494   | AC023494 Homo sapi  | c 170 | 20 | 1.1 | 182573 | 2  | AC110879 | AC110879 Oryctolag |
| 98  | 20 | 1.1 | 60761  | 2  | AC068568   | AC068568 Homo sapi  | c 171 | 20 | 1.1 | 182717 | 2  | AC079823 | AC079823 Homo sapi |
| 99  | 20 | 1.1 | 64175  | 2  | AC113068   | AC113068 Mus muscu  | c 172 | 20 | 1.1 | 182909 | 9  | AC026130 | AC026130 Homo sapi |
| 100 | 20 | 1.1 | 65861  | 2  | AC116124   | AC116124 Mus muscu  | c 173 | 20 | 1.1 | 183224 | 9  | AC022206 | AC022206 Homo sapi |
| 101 | 20 | 1.1 | 65861  | 2  | AC116124   | AC116124 Mus muscu  | c 174 | 20 | 1.1 | 183594 | 2  | AL732473 | AL732473 Mus muscu |
| 102 | 20 | 1.1 | 96183  | 8  | T518       | AC007060 Arabidops  | c 175 | 20 | 1.1 | 183692 | 9  | AC073413 | AC073413 Homo sapi |
| 103 | 20 | 1.1 | 97165  | 2  | AC096257   | AC096257 Rattus no  | c 176 | 20 | 1.1 | 183774 | 9  | AC092420 | AC092420 Homo sapi |
| 104 | 20 | 1.1 | 97346  | 2  | AC017201   | AC017201 Drosophi   | c 177 | 20 | 1.1 | 183833 | 9  | AL161646 | AL161646 Human DNA |
| 105 | 20 | 1.1 | 105495 | 9  | AC105999   | AC105999 Homo sapi  | c 178 | 20 | 1.1 | 183833 | 9  | AC091758 | AC091758 Sus scrof |
| 106 | 20 | 1.1 | 105496 | 9  | AF165142   | AF165142 Homo sapi  | c 179 | 20 | 1.1 | 184234 | 2  | AC087474 | AC087474 Homo sapi |
| 107 | 20 | 1.1 | 107777 | 2  | AC104971   | AC104971 Homo sapi  | c 180 | 20 | 1.1 | 185221 | 9  | AC108814 | AC108814 Mus muscu |
| 108 | 20 | 1.1 | 110000 | 2  | HSS171M_2  | Continuation (3 of  | c 181 | 20 | 1.1 | 185761 | 2  | AC116170 | AC116170 Homo sapi |
| 109 | 20 | 1.1 | 110000 | 2  | AC024901_2 | Continuation (3 of  | c 182 | 20 | 1.1 | 185870 | 2  | AC021179 | AC021179 Homo sapi |
| 110 | 20 | 1.1 | 110000 | 10 | AE014181_2 | Continuation (3 of  | c 183 | 20 | 1.1 | 187038 | 2  | AC016749 | AC016749 Homo sapi |
| 111 | 20 | 1.1 | 123224 | 2  | AC011414   | AC011414 Homo sapi  | c 184 | 20 | 1.1 | 187117 | 9  | AL645608 | AL645608 Homo sapi |
| 112 | 20 | 1.1 | 123447 | 2  | AC015857   | AC015857 Homo sapi  | c 185 | 20 | 1.1 | 188946 | 2  | AC023788 | AC023788 Homo sapi |
| 113 | 20 | 1.1 | 124510 | 9  | AC027306   | AC027306 Homo sapi  | c 186 | 20 | 1.1 | 189076 | 2  | AC011659 | AC011659 Homo sapi |
| 114 | 20 | 1.1 | 128757 | 9  | AL359837   | AL359837 Human DNA  | c 187 | 20 | 1.1 | 190023 | 9  | AC091560 | AC091560 Homo sapi |
| 115 | 20 | 1.1 | 130177 | 9  | HSBG279B7  | AL078644 Human DNA  | c 188 | 20 | 1.1 | 190283 | 2  | AC019331 | AC019331 Homo sapi |
| 116 | 20 | 1.1 | 130364 | 9  | AC116316   | AC116316 Homo sapi  | c 189 | 20 | 1.1 | 190705 | 2  | AC090885 | AC090885 Homo sapi |
| 117 | 20 | 1.1 | 130388 | 9  | AC025434   | AC025434 Homo sapi  | c 190 | 20 | 1.1 | 192624 | 9  | AC008742 | AC008742 Homo sapi |
| 118 | 20 | 1.1 | 131355 | 2  | AC089989   | AC089989 Rattus no  | c 191 | 20 | 1.1 | 194624 | 9  | AC091929 | AC091929 Homo sapi |
| 119 | 20 | 1.1 | 134249 | 2  | AC026734   | AC026734 Homo sapi  | c 192 | 20 | 1.1 | 196931 | 9  | AC228677 | AC228677 Homo sapi |
| 120 | 20 | 1.1 | 137539 | 2  | AC130193   | AC130193 Felis cat  | c 193 | 20 | 1.1 | 197838 | 2  | AC115785 | AC115785 Mus muscu |
| 121 | 20 | 1.1 | 138036 | 9  | AC008752   | AC008752 Homo sapi  | c 194 | 20 | 1.1 | 198230 | 9  | AC092662 | AC092662 Homo sapi |
| 122 | 20 | 1.1 | 144432 | 2  | AF276983   | AF276983 Homo sapi  | c 195 | 20 | 1.1 | 200000 | 2  | AC004630 | AC004630 Homo sapi |
| 123 | 20 | 1.1 | 146019 | 2  | AC120631   | AC120631 Rattus no  | c 196 | 20 | 1.1 | 200620 | 2  | AL772207 | AL772207 Mus muscu |
| 124 | 20 | 1.1 | 148370 | 10 | AC091514   | AC091514 Rattus no  | c 197 | 20 | 1.1 | 203519 | 10 | AC112258 | AC112258 Mus muscu |
| 125 | 20 | 1.1 | 148412 | 9  | AC010654   | AC010654 Homo sapi  | c 198 | 20 | 1.1 | 205612 | 2  | AC096124 | AC096124 Rattus no |
| 126 | 20 | 1.1 | 151608 | 2  | AC123290   | AC123290 Rattus no  | c 199 | 20 | 1.1 | 209612 | 9  | AC067951 | AC067951 Homo sapi |
| 127 | 20 | 1.1 | 152855 | 2  | AC103224   | AC103224 Rattus no  | c 200 | 20 | 1.1 | 210070 | 2  | AC003684 | AC003684 Homo sapi |
| 128 | 20 | 1.1 | 153764 | 9  | AL355350   | AL355350 Human DNA  | c 201 | 20 | 1.1 | 210954 | 9  | AC094543 | AC094543 Rattus no |
| 129 | 20 | 1.1 | 153975 | 2  | AC084243   | AC084243 Homo sapi  | c 202 | 20 | 1.1 | 214971 | 2  | AC124347 | AC124347 Mus muscu |
| 130 | 20 | 1.1 | 156826 | 2  | AC055767   | AC055767 Homo sapi  | c 203 | 20 | 1.1 | 216180 | 2  | AC122873 | AC122873 Mus muscu |
| 131 | 20 | 1.1 | 157835 | 3  | AC009356   | AC009356 Drosophi   | c 204 | 20 | 1.1 | 216686 | 2  | AC112142 | AC112142 Mus muscu |
| 132 | 20 | 1.1 | 159613 | 9  | AC007426   | AC007426 Homo sapi  | c 205 | 20 | 1.1 | 219289 | 2  | AC012363 | AC012363 Homo sapi |
| 133 | 20 | 1.1 | 159640 | 3  | AC008230   | AC008230 Drosophi   | c 206 | 20 | 1.1 | 223055 | 2  | AL806527 | AL806527 Mus muscu |
| 134 | 20 | 1.1 | 160307 | 9  | AC018359   | AC018359 Homo sapi  | c 207 | 20 | 1.1 | 237477 | 10 | AL653026 | AL653026 Mouse DNA |
| 135 | 20 | 1.1 | 160754 | 9  | AC007613   | AC007613 Homo sapi  | c 208 | 20 | 1.1 | 246998 | 2  | AC103311 | AC103311 Rattus no |
| 136 | 20 | 1.1 | 161153 | 10 | AC090887   | AC090887 Mus muscu  | c 209 | 20 | 1.1 | 247876 | 2  | AL844873 | AL844873 Mus muscu |
| 137 | 20 | 1.1 | 161649 | 2  | AC023652   | AC023652 Homo sapi  | c 210 | 20 | 1.1 | 250788 | 2  | AC125523 | AC125523 Mus muscu |
| 138 | 20 | 1.1 | 164963 | 9  | AC090833   | AC090833 Homo sapi  | c 211 | 20 | 1.1 | 258223 | 3  | AE003807 | AE003807 Drosophi  |



|       |     |        |    |           |                    |       |    |     |        |    |            |                               |
|-------|-----|--------|----|-----------|--------------------|-------|----|-----|--------|----|------------|-------------------------------|
| 212   | 1.1 | 309159 | 2  | AC074271  | Homo sapi          | 285   | 19 | 1.0 | 37914  | 2  | AC063959   | Mus muscu                     |
| 213   | 1.1 | 331801 | 1  | NMA422491 | Neisseria          | c 286 | 19 | 1.0 | 38944  | 8  | SPBP3562   | AL163702 S.pombe c            |
| c 214 | 1.1 | 340000 | 1  | HS21C102  | Homo sapi          | c 287 | 19 | 1.0 | 40611  | 9  | AC021090   | AC021090 Homo sapi            |
| 215   | 1.1 | 348189 | 2  | AC119567  | Homo sapi          | c 288 | 19 | 1.0 | 40953  | 2  | AC020347   | AC020347 Drosophil            |
| c 216 | 1.0 | 500    | 6  | AX474820  | Sequence           | 289   | 19 | 1.0 | 44913  | 8  | SPU23729   | U23729 Schizosacch            |
| 217   | 1.0 | 758    | 9  | HS420455  | Homo sapi          | 290   | 19 | 1.0 | 45333  | 8  | HSU0618A   | AL049773 Human DNA            |
| c 218 | 1.0 | 758    | 9  | HSGLRA206 | Sequence           | c 291 | 19 | 1.0 | 46783  | 2  | AC096502   | AC096502 Rattus no            |
| 219   | 1.0 | 768    | 10 | S70302    | cytokine re        | c 292 | 19 | 1.0 | 48173  | 9  | AL583849   | AL583849 Human DNA            |
| 220   | 1.0 | 802    | 10 | BC013334  | Mus muscu          | 293   | 19 | 1.0 | 50488  | 9  | AL133231   | AL133231 Human DNA            |
| 221   | 1.0 | 912    | 10 | MMELA2R   | Mouse mRNA         | 294   | 19 | 1.0 | 51815  | 2  | AC068454   | AC068454 Homo sapi            |
| c 222 | 1.0 | 917    | 10 | BC026552  | Mus muscu          | c 295 | 19 | 1.0 | 53628  | 2  | AC124004   | AC124004 Mus muscu            |
| 223   | 1.0 | 934    | 10 | AY074084  | Mus muscu          | c 296 | 19 | 1.0 | 55707  | 2  | AC101785   | AC101785 Mus muscu            |
| 224   | 1.0 | 1008   | 9  | BC000509  | Homo sapi          | c 297 | 19 | 1.0 | 57000  | 9  | AB038162   | AB038162 Homo sapi            |
| c 225 | 1.0 | 1013   | 9  | AF024690  | Homo sapi          | c 298 | 19 | 1.0 | 57700  | 2  | AC099868   | AC099868 Mus muscu            |
| 226   | 1.0 | 1021   | 10 | AF151108  | Homo sapi          | c 299 | 19 | 1.0 | 59460  | 2  | AC130298   | AC130298 Homo sapi            |
| 227   | 1.0 | 1078   | 9  | BC016277  | Homo sapi          | 300   | 19 | 1.0 | 62180  | 2  | AP000441   | AP000441 Homo sapi            |
| 228   | 1.0 | 1129   | 6  | AX464088  | Sequence           | 301   | 19 | 1.0 | 64108  | 2  | AC101983   | AC101983 Mus muscu            |
| 229   | 1.0 | 1242   | 9  | HSU86070  | Homo sapien        | 302   | 19 | 1.0 | 64569  | 9  | AC117433   | AC117433 Homo sapi            |
| 230   | 1.0 | 1325   | 9  | AF131814  | Homo sapi          | 303   | 19 | 1.0 | 65943  | 2  | AC124996   | AC124996 Mus muscu            |
| 231   | 1.0 | 1444   | 9  | BC002793  | Homo sapi          | 304   | 19 | 1.0 | 66092  | 2  | AC125435   | AC125435 Homo sapi            |
| 232   | 1.0 | 1507   | 9  | HSU52464  | Human P2 pu        | 305   | 19 | 1.0 | 66254  | 9  | AL137791   | AL137791 Human DNA            |
| 233   | 1.0 | 1539   | 9  | AF007891  | Homo sapi          | c 306 | 19 | 1.0 | 66974  | 2  | AC130566   | AC130566 Homo sapi            |
| c 234 | 1.0 | 1549   | 8  | HVGLN2    | Sequence           | c 307 | 19 | 1.0 | 67119  | 2  | AC100327   | AC100327 Mus muscu            |
| 235   | 1.0 | 1556   | 9  | BC000571  | Homo sapi          | c 308 | 19 | 1.0 | 67131  | 2  | AC103791   | AC103791 Homo sapi            |
| c 236 | 1.0 | 1571   | 9  | HSP2Y6    | Sequence           | c 309 | 19 | 1.0 | 68409  | 2  | AC105975   | AC105975 Mus muscu            |
| c 237 | 1.0 | 1600   | 8  | HVGLN2R   | Homo sapi          | c 310 | 19 | 1.0 | 70548  | 9  | HSAP003625 | HSAP003625 Homo sapi          |
| c 238 | 1.0 | 1647   | 9  | AF218005  | Homo sapi          | c 311 | 19 | 1.0 | 71573  | 2  | AC105408   | AC105408 Mus muscu            |
| c 239 | 1.0 | 1667   | 6  | AX250017  | Sequence           | c 312 | 19 | 1.0 | 72718  | 2  | AC016268   | AC016268 Homo sapi            |
| 240   | 1.0 | 1691   | 6  | AX250019  | Sequence           | c 313 | 19 | 1.0 | 73175  | 2  | AC105650   | AC105650 Rattus no            |
| 241   | 1.0 | 1724   | 9  | AF265209  | Sequence           | c 314 | 19 | 1.0 | 73065  | 8  | NCB1308    | AC124808 Mus muscu            |
| 242   | 1.0 | 1725   | 9  | HUMENICMA | Sequence           | c 315 | 19 | 1.0 | 82016  | 2  | AC016110   | AC016110 Homo sapi            |
| 243   | 1.0 | 1832   | 9  | AF007892  | Human enig         | c 316 | 19 | 1.0 | 82646  | 8  | AB028611   | AB028611 Arabidops            |
| 244   | 1.0 | 1944   | 9  | AF007892  | Homo sapi          | c 317 | 19 | 1.0 | 83504  | 2  | AC114641   | AC114641 Mus muscu            |
| 245   | 1.0 | 1944   | 10 | BC227216  | Homo sapi          | c 318 | 19 | 1.0 | 84877  | 10 | AL672018   | AL672018 Mouse DNA            |
| 246   | 1.0 | 1980   | 10 | BC027199  | Mus muscu          | c 319 | 19 | 1.0 | 85097  | 3  | AC026301   | AC026301 Caenorhab            |
| 247   | 1.0 | 2110   | 1  | ABGHPA    | A. pasteur         | c 320 | 19 | 1.0 | 86173  | 9  | AL160004   | AL160004 Human DNA            |
| 248   | 1.0 | 2152   | 10 | BC008638  | Mus muscu          | c 321 | 19 | 1.0 | 86421  | 9  | AC108118   | AC108118 Homo sapi            |
| c 249 | 1.0 | 2246   | 10 | BC008989  | Mus muscu          | c 322 | 19 | 1.0 | 88662  | 2  | AC021501   | AC021501 Homo sapi            |
| 250   | 1.0 | 2260   | 6  | AY071207  | Sequence           | c 323 | 19 | 1.0 | 89134  | 2  | AP004162   | AP004162 Oryza sat            |
| 251   | 1.0 | 2295   | 3  | AY060938  | Drosophil          | c 324 | 19 | 1.0 | 89267  | 9  | AC1359079  | AC1359079 Human DNA           |
| 252   | 1.0 | 2298   | 9  | AB070146  | Macaca fa          | c 325 | 19 | 1.0 | 90601  | 9  | AC087308   | AC087308 Homo sapi            |
| 253   | 1.0 | 2308   | 10 | RATKINLA  | M75146 Rat kinesin | c 326 | 19 | 1.0 | 91192  | 9  | AC073072   | AC073072 Homo sapi            |
| 254   | 1.0 | 2338   | 9  | BC007952  | Homo sapi          | c 327 | 19 | 1.0 | 92567  | 2  | AC103425   | AC103425 Rattus no            |
| 255   | 1.0 | 2352   | 9  | AF007893  | Homo sapi          | c 328 | 19 | 1.0 | 93663  | 2  | AC107039   | AC107039 Pan trogl            |
| 256   | 1.0 | 2386   | 10 | RATKINLC  | M75148 Rat kinesin | c 329 | 19 | 1.0 | 94000  | 9  | AP000562   | AP000562 Homo sapi            |
| 257   | 1.0 | 2409   | 9  | BC009391  | Homo sapi          | c 330 | 19 | 1.0 | 94255  | 8  | AP004943   | AP004943 Lotus jap            |
| 258   | 1.0 | 2486   | 6  | AX098605  | Sequence           | c 331 | 19 | 1.0 | 95582  | 9  | AC079621   | AC079621 Homo sapi            |
| 259   | 1.0 | 2490   | 1  | SPU5974   | Sequence           | c 332 | 19 | 1.0 | 97146  | 9  | AL135929   | AL135929 Human DNA            |
| 260   | 1.0 | 2571   | 3  | AB066348  | Sequence           | c 333 | 19 | 1.0 | 97512  | 9  | AL139351   | AL139351 Human DNA            |
| 261   | 1.0 | 2818   | 8  | AF019614  | Crassost           | c 334 | 19 | 1.0 | 98240  | 9  | AC006021   | AC006021 Homo sapi            |
| 262   | 1.0 | 2928   | 9  | AB071049  | Solanum t          | c 335 | 19 | 1.0 | 98713  | 2  | AC002511   | AC002511 Human DNA            |
| 263   | 1.0 | 3079   | 9  | AK092663  | Human GM-CS        | c 336 | 19 | 1.0 | 98951  | 2  | AC090069   | AC090069 Homo sapi            |
| c 264 | 1.0 | 3079   | 9  | AK092663  | Homo sapi          | c 337 | 19 | 1.0 | 104705 | 9  | AC079412   | AC079412 Homo sapi            |
| c 265 | 1.0 | 3318   | 6  | AX250079  | Sequence           | c 338 | 19 | 1.0 | 106169 | 9  | AC073534   | AC073534 Homo sapi            |
| c 266 | 1.0 | 3345   | 9  | AF178985  | Homo sapi          | c 339 | 19 | 1.0 | 106616 | 2  | AC099002   | AC099002 Rattus no            |
| 267   | 1.0 | 3371   | 5  | CHRCORNE  | Sequence           | c 340 | 19 | 1.0 | 10733  | 9  | AC008472   | AC008472 Homo sapi            |
| 268   | 1.0 | 4169   | 6  | AX250159  | Gallus gall        | c 341 | 19 | 1.0 | 108625 | 9  | AL356773   | AL356773 Human DNA            |
| 269   | 1.0 | 4442   | 9  | BC013645  | Homo sapi          | c 342 | 19 | 1.0 | 108669 | 2  | AC011675   | AC011675 Homo sapi            |
| 270   | 1.0 | 6984   | 10 | AF042317  | Mus muscu          | c 343 | 19 | 1.0 | 10987  | 2  | AC123276   | AC123276 Rattus no            |
| 271   | 1.0 | 7185   | 10 | MMU04999  | Mus muscu          | c 344 | 19 | 1.0 | 110000 | 2  | AC097795_2 | AC097795_2 Continuation (3 of |
| c 272 | 1.0 | 10029  | 1  | AE011108  | Xanthomon          | c 345 | 19 | 1.0 | 110000 | 2  | AC026388_0 | AC026388_0 Mus muscu          |
| 273   | 1.0 | 1508   | 1  | AE011748  | Sequence           | c 351 | 19 | 1.0 | 110000 | 10 | AE014174_2 | AE014174_2 Continuation (3 of |
| 274   | 1.0 | 13284  | 2  | AC019860  | Drosophil          | c 352 | 19 | 1.0 | 110104 | 9  | AC011348   | AC011348 Homo sapi            |
| c 275 | 1.0 | 13638  | 9  | AC005573  | Homo sapi          | c 353 | 19 | 1.0 | 111324 | 9  | AC000377   | AC000377 Human Chr            |
| c 276 | 1.0 | 19809  | 2  | AC017750  | Homo sapi          | c 354 | 19 | 1.0 | 112010 | 2  | AC122588   | AC122588 Rattus no            |
| 277   | 1.0 | 24276  | 9  | AC091800  | Homo sapi          | c 355 | 19 | 1.0 | 112067 | 9  | AC008894   | AC008894 Homo sapi            |
| c 278 | 1.0 | 29759  | 9  | AL133392  | Sequence           | c 356 | 19 | 1.0 | 112098 | 2  | AC119347   | AC119347 Rattus no            |
| c 279 | 1.0 | 31224  | 2  | AC024693  | Sequence           |       |    |     |        |    |            |                               |
| c 280 | 1.0 | 35100  | 6  | AR065851  | Sequence           |       |    |     |        |    |            |                               |
| c 281 | 1.0 | 35100  | 6  | AR127849  | Sequence           |       |    |     |        |    |            |                               |
| c 282 | 1.0 | 35100  | 6  | AR194751  | Sequence           |       |    |     |        |    |            |                               |
| c 283 | 1.0 | 35872  | 8  | AF325196  | Triticum           |       |    |     |        |    |            |                               |
| c 284 | 1.0 | 37770  | 9  | AC010513  | Human sapi         |       |    |     |        |    |            |                               |
|       | 1.0 | 37784  | 9  | AC002997  | Human DNA          |       |    |     |        |    |            |                               |

|       |    |            |    |           |                     |       |    |            |   |          |                    |
|-------|----|------------|----|-----------|---------------------|-------|----|------------|---|----------|--------------------|
| 358   | 19 | 1.0 112389 | 2  | AC073598  | AC073598 Homo sapi  | 431   | 19 | 1.0 152631 | 9 | AC117432 | AC117432 Homo sapi |
| c 359 | 19 | 1.0 113196 | 9  | HSJ697K14 | AL121829 Human DNA  | c 432 | 19 | 1.0 152732 | 2 | AC074204 | Mus muscu          |
| 360   | 19 | 1.0 113213 | 9  | AC008490  | AC008490 Homo sapi  | 433   | 19 | 1.0 152901 | 2 | AC055781 | Homo sapi          |
| 361   | 19 | 1.0 113474 | 2  | AC013932  | AC013932 Drosophil  | c 434 | 19 | 1.0 152951 | 2 | AC123392 | Rattus no          |
| c 362 | 19 | 1.0 115252 | 2  | AC102851  | AC102851 Mus muscu  | 435   | 19 | 1.0 153659 | 2 | AC124057 | Homo sapi          |
| 363   | 19 | 1.0 115732 | 9  | AC104566  | AC104566 Homo sapi  | c 436 | 19 | 1.0 153659 | 2 | AC124057 | Homo sapi          |
| 364   | 19 | 1.0 117559 | 9  | AC092279  | AC092279 Homo sapi  | 437   | 19 | 1.0 154967 | 2 | AC120282 | Rattus no          |
| 365   | 19 | 1.0 119689 | 2  | AC126304  | AC126304 Rattus no  | 438   | 19 | 1.0 155035 | 2 | AC096239 | Rattus no          |
| c 366 | 19 | 1.0 119707 | 2  | AL773521  | AL773521 Sus scrofa | 439   | 19 | 1.0 155074 | 9 | AC003693 | Human Chr          |
| c 367 | 19 | 1.0 120608 | 9  | HS469K11  | AL449209 Homo sapi  | c 440 | 19 | 1.0 155125 | 9 | AC024561 | Homo sapi          |
| c 368 | 19 | 1.0 120793 | 2  | AF322450  | AF322450 Homo sapi  | c 441 | 19 | 1.0 155125 | 9 | AC024561 | Homo sapi          |
| 369   | 19 | 1.0 120948 | 2  | AL123596  | AL123596 Medicago   | 442   | 19 | 1.0 155536 | 9 | AC004112 | Homo sapi          |
| 370   | 19 | 1.0 123256 | 2  | AL356602  | AL356602 Homo sapi  | 443   | 19 | 1.0 155589 | 9 | AC084879 | Homo sapi          |
| c 371 | 19 | 1.0 123391 | 9  | HSJ902P15 | AL096888 Human DNA  | c 444 | 19 | 1.0 155723 | 2 | AC103599 | Mus muscu          |
| c 372 | 19 | 1.0 125000 | 9  | AB017602  | AB017602 Homo sapi  | 445   | 19 | 1.0 155925 | 2 | AP004814 | Oryza sat          |
| c 373 | 19 | 1.0 126809 | 2  | AC128053  | AC128053 Rattus no  | 446   | 19 | 1.0 157102 | 2 | AC016409 | Homo sapi          |
| c 374 | 19 | 1.0 127883 | 9  | AC003683  | AC003683 Homo sapi  | c 447 | 19 | 1.0 157481 | 9 | AC093512 | Homo sapi          |
| 375   | 19 | 1.0 127701 | 2  | AC091302  | AC091302 Oryza sat  | c 448 | 19 | 1.0 157656 | 2 | AC104124 | Homo sapi          |
| c 376 | 19 | 1.0 129102 | 2  | AC103927  | AC103927 Mus muscu  | 449   | 19 | 1.0 157739 | 9 | AP001623 | Homo sapi          |
| c 377 | 19 | 1.0 129120 | 2  | HS187B23  | AL031280 Human DNA  | 450   | 19 | 1.0 158249 | 2 | AC121929 | Mus muscu          |
| c 378 | 19 | 1.0 129197 | 2  | AC101726  | AC101726 Mus muscu  | 451   | 19 | 1.0 158320 | 2 | AC055727 | Homo sapi          |
| c 379 | 19 | 1.0 129440 | 9  | AC004806  | AC004806 Homo sapi  | c 452 | 19 | 1.0 158395 | 9 | AC079600 | Homo sapi          |
| c 380 | 19 | 1.0 129654 | 9  | AL157765  | AL157765 Human DNA  | c 453 | 19 | 1.0 158535 | 9 | AC093368 | Homo sapi          |
| 381   | 19 | 1.0 130831 | 2  | AC027568  | AC027568 Homo sapi  | c 454 | 19 | 1.0 158862 | 2 | AC122964 | Rattus no          |
| c 382 | 19 | 1.0 131611 | 9  | AC005099  | AC005099 Homo sapi  | c 455 | 19 | 1.0 159281 | 9 | HS406M12 | Human DNA          |
| c 383 | 19 | 1.0 132323 | 9  | AL116615  | AL116615 Homo sapi  | 456   | 19 | 1.0 159284 | 2 | AC084369 | Homo sapi          |
| c 384 | 19 | 1.0 132933 | 9  | AL137002  | AL137002 Human DNA  | c 457 | 19 | 1.0 159602 | 9 | CNS01DRH | Human chr          |
| c 385 | 19 | 1.0 132948 | 9  | HS349A12  | AL0333520 Human DNA | c 458 | 19 | 1.0 159637 | 2 | AC007990 | Homo sapi          |
| c 386 | 19 | 1.0 133544 | 9  | AC100748  | AC100748 Homo sapi  | c 459 | 19 | 1.0 159836 | 2 | AF236875 | Homo sapi          |
| c 387 | 19 | 1.0 133661 | 14 | U93872    | Kaposi's sa         | 460   | 19 | 1.0 159922 | 2 | AC128830 | Rattus no          |
| c 388 | 19 | 1.0 134979 | 9  | AC018720  | AC018720 Homo sapi  | 461   | 19 | 1.0 160219 | 2 | AC111053 | Homo sapi          |
| c 389 | 19 | 1.0 135033 | 9  | AC009955  | AC009955 Homo sapi  | c 462 | 19 | 1.0 160259 | 2 | AC111945 | Rattus no          |
| c 390 | 19 | 1.0 135062 | 9  | AC026691  | AC026691 Homo sapi  | 463   | 19 | 1.0 160405 | 9 | AC092324 | Homo sapi          |
| c 391 | 19 | 1.0 135300 | 9  | AC008163  | AC008163 Homo sapi  | c 464 | 19 | 1.0 160536 | 2 | AC040953 | Homo sapi          |
| c 392 | 19 | 1.0 135430 | 9  | AC112131  | AC112131 Homo sapi  | 465   | 19 | 1.0 161530 | 2 | AC015529 | Homo sapi          |
| c 393 | 19 | 1.0 136933 | 3  | AC005891  | AC005891 Drosophil  | 466   | 19 | 1.0 161753 | 2 | AF186997 | Homo sapi          |
| c 394 | 19 | 1.0 137508 | 14 | KSU75698  | U75698 Kaposi's sa  | c 467 | 19 | 1.0 162149 | 2 | AC023574 | Homo sapi          |
| c 395 | 19 | 1.0 137833 | 9  | CNS01DV6  | AL133455 Human chr  | c 468 | 19 | 1.0 162477 | 2 | AC103957 | Homo sapi          |
| c 396 | 19 | 1.0 137862 | 2  | AL356780  | AL356780 Homo sapi  | c 469 | 19 | 1.0 162539 | 2 | AL354753 | Homo sapi          |
| c 397 | 19 | 1.0 138502 | 2  | AC128093  | AC128093 Rattus no  | c 470 | 19 | 1.0 162921 | 3 | AC007853 | Drosophil          |
| c 398 | 19 | 1.0 138547 | 2  | AC021456  | AC021456 Homo sapi  | c 471 | 19 | 1.0 163166 | 2 | AC124463 | Mus muscu          |
| c 399 | 19 | 1.0 139117 | 2  | AC068147  | AC068147 Homo sapi  | 472   | 19 | 1.0 163253 | 2 | AC093312 | Oryza sat          |
| 400   | 19 | 1.0 139253 | 9  | AC091899  | AC091899 Homo sapi  | 473   | 19 | 1.0 163338 | 9 | AL162426 | Human DNA          |
| 401   | 19 | 1.0 139629 | 2  | AP003809  | AP003809 Oryza sat  | c 474 | 19 | 1.0 163577 | 2 | AC107571 | Rattus no          |
| c 402 | 19 | 1.0 139857 | 2  | AC120315  | AC120315 Rattus no  | c 475 | 19 | 1.0 163838 | 2 | AC069241 | Homo sapi          |
| c 403 | 19 | 1.0 141591 | 9  | AC079467  | AC079467 Homo sapi  | c 476 | 19 | 1.0 164508 | 2 | AC104130 | Homo sapi          |
| c 404 | 19 | 1.0 141717 | 2  | AP004457  | AP004457 Oryza sat  | c 477 | 19 | 1.0 164522 | 9 | AC026191 | Homo sapi          |
| c 405 | 19 | 1.0 141794 | 2  | AC093455  | AC093455 Homo sapi  | 478   | 19 | 1.0 164834 | 2 | AC105633 | Rattus no          |
| c 406 | 19 | 1.0 141978 | 2  | AC102006  | AC102006 Mus muscu  | c 479 | 19 | 1.0 165081 | 2 | AC113484 | Mus muscu          |
| c 407 | 19 | 1.0 142156 | 2  | AP004399  | AP004399 Oryza sat  | c 480 | 19 | 1.0 165120 | 2 | AC069430 | Homo sapi          |
| c 408 | 19 | 1.0 142451 | 4  | AC091542  | AC091542 Felis cat  | 481   | 19 | 1.0 165639 | 2 | AC016267 | Homo sapi          |
| c 409 | 19 | 1.0 142537 | 9  | AL589843  | AL589843 Human DNA  | c 482 | 19 | 1.0 166183 | 9 | CNS01RH2 | Human chr          |
| c 410 | 19 | 1.0 143111 | 2  | AC121938  | AC121938 Mus muscu  | c 483 | 19 | 1.0 166229 | 2 | AC022070 | Homo sapi          |
| c 411 | 19 | 1.0 143785 | 2  | AC092334  | AC092334 Homo sapi  | 484   | 19 | 1.0 166465 | 2 | AP002351 | Homo sapi          |
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| c 413 | 19 | 1.0 144124 | 2  | AC117252  | AC117252 Mus muscu  | c 486 | 19 | 1.0 166572 | 2 | AC091508 | Felis cat          |
| c 414 | 19 | 1.0 144260 | 9  | AC006998  | AC006998 Homo sapi  | c 487 | 19 | 1.0 166660 | 9 | AC008073 | Homo sapi          |
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| c 416 | 19 | 1.0 145242 | 2  | AC018823  | AC018823 Homo sapi  | c 489 | 19 | 1.0 166978 | 9 | AC004098 | Homo sapi          |
| c 417 | 19 | 1.0 145380 | 9  | AL357129  | AL357129 Human DNA  | c 490 | 19 | 1.0 167286 | 2 | AC115907 | Mus muscu          |
| c 418 | 19 | 1.0 145762 | 9  | AP001626  | AP001626 Homo sapi  | c 491 | 19 | 1.0 167439 | 2 | AC130273 | Papio cyn          |
| c 419 | 19 | 1.0 146776 | 2  | AC093486  | AC093486 Homo sapi  | 492   | 19 | 1.0 167544 | 3 | AC093095 | Drosophil          |
| c 420 | 19 | 1.0 148517 | 2  | AC011147  | AC011147 Homo sapi  | 493   | 19 | 1.0 167579 | 9 | AC026161 | Homo sapi          |
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| c 424 | 19 | 1.0 150348 | 2  | AC097387  | AC097387 Rattus no  | c 497 | 19 | 1.0 168582 | 2 | AC079534 | Mus muscu          |
| c 425 | 19 | 1.0 151019 | 9  | AC026796  | AC026796 Homo sapi  | c 498 | 19 | 1.0 168593 | 2 | AC103080 | Rattus no          |
| c 426 | 19 | 1.0 151804 | 2  | AC008161  | AC008161 Mus muscu  | c 499 | 19 | 1.0 169083 | 2 | AL355346 | Homo sapi          |
| c 427 | 19 | 1.0 152077 | 9  | HS130G2   | AL008627 Human DNA  | c 500 | 19 | 1.0 169246 | 9 | AC091815 | Homo sapi          |
| c 428 | 19 | 1.0 152135 | 9  | AC011199  | AC011199 Homo sapi  | c 501 | 19 | 1.0 169588 | 2 | AC107100 | Rattus no          |
| c 429 | 19 | 1.0 152258 | 2  | AC116838  | AC116838 Mus muscu  | c 502 | 19 | 1.0 170155 | 2 | AC068353 | Homo sapi          |
| c 430 | 19 | 1.0 152283 | 9  | AC024083  | AC024083 Homo sapi  | c 503 | 19 | 1.0 170268 | 2 | AC026834 | Homo sapi          |





|     |    |     |      |    |           |                    |    |     |      |   |           |                       |
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| 796 | 18 | 1.0 | 1221 | 6  | E02929    | E02929 DNA sequenc | 18 | 1.0 | 1455 | 1 | RTH270259 | AJ270259 Ralstonia    |
| 797 | 18 | 1.0 | 1222 | 9  | HUMSCM1A  | D43768 Homo sapien | 18 | 1.0 | 1455 | 1 | UBU28235  | U28235 blood disea    |
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| 804 | 18 | 1.0 | 1234 | 3  | AY118935  | AY118935 Homo sapi | 18 | 1.0 | 1459 | 1 | AB008503  | AB008503 Ultramicr    |
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| 807 | 18 | 1.0 | 1260 | 1  | AF390082  | AF390082 Ralstonia | 18 | 1.0 | 1459 | 1 | AY117552  | AY117552 Chromobac    |
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| 809 | 18 | 1.0 | 1275 | 1  | AF089859  | AF089859 Aquabacte | 18 | 1.0 | 1459 | 1 | AY117559  | AY117559 Chromobac    |
| 810 | 18 | 1.0 | 1288 | 17 | AF119895  | AF119895 Homo sapi | 18 | 1.0 | 1459 | 9 | IR1902571 | IR1902571 Homo sapi   |
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| 812 | 18 | 1.0 | 1330 | 9  | BC021729  | BC021729 Homo sapi | 18 | 1.0 | 1461 | 1 | AB017564  | AB017564 Chromobac    |
| 813 | 18 | 1.0 | 1332 | 6  | AX403382  | AX403382 Sequence  | 18 | 1.0 | 1462 | 1 | AY043379  | AY043379 Ralstonia    |
| 815 | 18 | 1.0 | 1332 | 6  | AX454566  | AX454566 Sequence  | 18 | 1.0 | 1462 | 1 | BSU282220 | BSU282220 Burkholderi |
| 816 | 18 | 1.0 | 1332 | 6  | AX464310  | AX464310 Sequence  | 18 | 1.0 | 1464 | 1 | AY043378  | AY043378 Ralstonia    |
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| 818 | 18 | 1.0 | 1359 | 1  | PSERBCC   | L37367 Pseudomonas | 18 | 1.0 | 1465 | 1 | PP16SRRNA | PP16SRRNA             |
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| 820 | 18 | 1.0 | 1390 | 9  | BC005075  | BC005075 Homo sapi | 18 | 1.0 | 1468 | 1 | AB004790  | AB004790 Burkholderi  |
| 821 | 18 | 1.0 | 1413 | 1  | AB015048  | AB015048 Leptothri | 18 | 1.0 | 1470 | 1 | AF385538  | AF385538 Beta prot    |
| 822 | 18 | 1.0 | 1416 | 10 | BC024441  | BC024441 Mus muscu | 18 | 1.0 | 1470 | 1 | PS09216SR | PS09216SR             |
| 823 | 18 | 1.0 | 1418 | 1  | AF035050  | AF035050 Beta prot | 18 | 1.0 | 1470 | 1 | PS11616SR | PS11616SR             |
| 824 | 18 | 1.0 | 1423 | 9  | BC011833  | BC011833 Homo sapi | 18 | 1.0 | 1471 | 1 | AB024604  | AB024604 Ralstonia    |
| 825 | 18 | 1.0 | 1425 | 10 | BC025912  | BC025912 Mus muscu | 18 | 1.0 | 1471 | 1 | AB024605  | AB024605 Ralstonia    |
| 826 | 18 | 1.0 | 1431 | 1  | AF207891  | AF207891 Ralstonia | 18 | 1.0 | 1471 | 1 | AB024606  | AB024606 Ralstonia    |
| 827 | 18 | 1.0 | 1431 | 1  | AF207892  | AF207892 Ralstonia | 18 | 1.0 | 1471 | 1 | AB024607  | AB024607 Ralstonia    |
| 828 | 18 | 1.0 | 1431 | 1  | AF207893  | AF207893 Ralstonia | 18 | 1.0 | 1471 | 1 | AB024608  | AB024608 Ralstonia    |
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| 947  | 18 | 1.0 | 1550 | 9  | AK025991   | AK025991 Homo sapi  |
| 948  | 18 | 1.0 | 1551 | 10 | BC011100   | BC011100 Mus muscu  |
| 949  | 18 | 1.0 | 1552 | 3  | AY075570   | AY075570 Drosophi   |
| 950  | 18 | 1.0 | 1553 | 9  | BC010095   | BC010095 Homo sapi  |
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| 952  | 18 | 1.0 | 1555 | 8  | AF367333   | AF367333 Arabidops  |
| 953  | 18 | 1.0 | 1556 | 9  | BC017797   | BC017797 Homo sapi  |
| 954  | 18 | 1.0 | 1557 | 9  | AF102848   | AF102848 Homo sapi  |
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| 961  | 18 | 1.0 | 1564 | 9  | BC010514   | BC010514 Homo sapi  |
| 962  | 18 | 1.0 | 1565 | 3  | LM030455   | U30455 Leishmania   |
| 963  | 18 | 1.0 | 1566 | 9  | BC014962   | BC014962 Homo sapi  |
| 964  | 18 | 1.0 | 1567 | 9  | AB060881   | AB060881 Macaca fa  |
| 965  | 18 | 1.0 | 1568 | 9  | HSU97144   | U97144 Homo sapien  |
| 966  | 18 | 1.0 | 1569 | 9  | AK026144   | AK026144 Homo sapi  |
| 967  | 18 | 1.0 | 1570 | 9  | HUMCYPC17  | M14564 Human cyto   |
| 968  | 18 | 1.0 | 1571 | 6  | AX468690   | AX468690 Sequence   |
| 969  | 18 | 1.0 | 1572 | 6  | HUMSUBPRA  | M74290 Human subst  |
| 970  | 18 | 1.0 | 1573 | 9  | HSAN9985   | AJ009985 Homo sapi  |
| 971  | 18 | 1.0 | 1574 | 6  | AF194170   | AF194170 Sequence   |
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| 973  | 18 | 1.0 | 1576 | 6  | AX283089   | AX283089 Sequence   |
| 974  | 18 | 1.0 | 1577 | 6  | AX283091   | AX283091 Sequence   |
| 975  | 18 | 1.0 | 1578 | 4  | AF176914   | AF176914 Oryctolag  |
| 976  | 18 | 1.0 | 1579 | 4  | AF332576   | AF332576 Oryctolag  |
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| 979  | 18 | 1.0 | 1582 | 6  | AX176410   | AX176410 Sequence   |
| 980  | 18 | 1.0 | 1583 | 6  | AX365695   | AX365695 Sequence   |
| 981  | 18 | 1.0 | 1584 | 9  | AF097494   | AF097494 Homo sapi  |
| 982  | 18 | 1.0 | 1585 | 10 | BC003809   | BC003809 Mus muscu  |
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| 984  | 18 | 1.0 | 1587 | 10 | AF311288   | AF311288 Rattus no  |
| 985  | 18 | 1.0 | 1588 | 6  | AX092418   | AX092418 Sequence   |
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| 991  | 18 | 1.0 | 1594 | 10 | BC012960   | BC012960 Mus muscu  |
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| 998  | 18 | 1.0 | 1601 | 10 | BC030409   | BC030409 Mus muscu  |
| 999  | 18 | 1.0 | 1602 | 4  | RBCY450DA  | M29852 Rabbit cyto  |
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RESULT 1

AX191503

LOCUS

AX191503

DEFINITION

Sequence 25 from Patent WO0149728.

ACCESSION

AX191503

VERSION

AX191503.1

KEYWORDS

GI:15209689

SOURCE

human.

ORGANISM

Homo sapiens

AX191503

Sequence 25 from Patent WO0149728.

1775 bp

DNA

linear

PAT 15-AUG-2001

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|----------------------------|---|
| REFERENCE                  | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  |
| AUTHORS                    | 1 (bases 1 to 1775)   |
| TITLE                      | Kato, S. and Kimura, T.   |
| JOURNAL                    | Human proteins having hydrophobic domains and dnas encoding these proteins  |
| FEATURES                   | Patent: WO 0149728-A 25 12-JUL-2001; Protegene Inc. (JP) : SAGAMI CHEMICAL RESEARCH CENTER (JP)   |
| source                     | Location/Qualifiers   |
| CDS                        | 1..1775 /organism="Homo sapiens" /db_xref="taxon:9606" 62..1402 /note="unnamed protein product" /protein_id="CAC51149.1" /codon_start=1 /db_xref="GI:15209690" /translation="MLHPETSGRHLHLAVLLALLGTANAEVPPLOEQAPMAGALN RKESFLILSLHNRSLRWQPPADMRRLDWSLSLAQALACGPTTSLASGLMR TQGVNMLLPAGLAFVYVSWFAEGQYSHAEACARNATCTHYTLVATWSQ LGCGRHLC SAGAAATEAFVCAVSPGNWVNGKTIIPYKKGAWCSLCTASVSGCFKAW DHAGGLCEVPRNPRMNSCONHGRILATSTCHCHPCPGYGRYGVRCVSLQCVHGRFEE ECSCVCDIGYGAQCATKVHFFPHFCDLIDGDCFMVSEADTYRYARMCKQRKGGVL AQIKSQKQVDILAFYGLRLEITNEVIDSFETRNLWITGLTYIKTAKDSFRATGEHQAF TSFAFGQPDNHGFGNCELOQASAAFNWNNORCKTRNRYICQFAQEHISRWGPGS" |
| BASE COUNT                 | 360 a 541 c 549 g 325 t   |
| ORIGIN                     |   |
| Query Match                | 54.9%; Score 1029; DB 6; Length 1775;   |
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| Matches 1229; Conservative | 0; Mismatches 4; Indels 0; Gaps 0;  |
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| Db                         | 41 CTGACGGGCCCAACAGACCCATGCTGTCATCCAGAGACCTCCCTCGCGGGGCGCATCTC 100  |
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| QY                         | 702 ACAATCATCCCCATATAAGAGGGTGCCTGGTGTTCGCTCTGCACACGACGAGTGTCTCAGGC 761  |

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Db 641 ACAATCATCCCTATAAAGAGGTGCTGGTGTGCTCTGCACAGCCAGTGTCTCAGGC 700
Qy 762 TGTCTTAAAGCTGGAGCCATCAGGGGGTCTGTGAGGTCCCAAGGAATCCTTGTGCG 821
Db 701 TGTCTTAAAGCTGGAGCCATCAGGGGGTCTGTGAGGTCCCAAGGAATCCTTGTGCG 760
Qy 822 ATGAGCTGCCAAGACCATGGAGCTCTCAACATFAGCACCCTGCCACTGTCCCCCT 881
Db 761 ATGAGCTGCCAAGACCATGGAGCTCTCAACATFAGCACCCTGCCACTGTCCCCCT 820
Qy 882 GGCTACACGGGAGATCTGCCAAGTGAAGTGCAGCTGCAGTGTGTCACGGCGGTTTC 941
Db 821 GGCTACACGGGAGATCTGCCAAGTGAAGTGCAGCTGCAGTGTGTCACGGCGGTTTC 880
Qy 942 CCGGAGGAGGAGTGTCTCGTGGCTGTGACATCGCTACGGGGAGGCCAGTGTGCCACC 1001
Db 881 CCGGAGGAGGAGTGTCTCGTGGCTGTGACATCGCTACGGGGAGGCCAGTGTGCCACC 940
Qy 1002 AAGGTGCATTTTCCCTTCCACACCTGTGACCTGAGGATCGAGCGAGTGTTCATGTG 1061
Db 941 AAGGTGCATTTTCCCTTCCACACCTGTGACCTGAGGATCGAGCGAGTGTTCATGTG 1000
Qy 1062 TCTTACAGGAGACACCTATTACAGAGCCAGGATGAATGTCAAGAGAAAGCGGGGTG 1121
Db 1001 TCTTACAGGAGACACCTATTACAGAGCCAGGATGAATGTCAAGAGAAAGCGGGGTG 1060
Qy 1122 CTGGCCAGATCAAGAGCCAGAAAGTGCAGGACATCTCGCTTCTATCTGGGCGGCTG 1181
Db 1061 CTGGCCAGATCAAGAGCCAGAAAGTGCAGGACATCTCGCTTCTATCTGGGCGGCTG 1120
Qy 1182 GAGACACCAACAGGAGTGTGACAGTGTGACAGTGTGACAGCAGGAACTTCTGATCGGGT 1241
Db 1121 GAGACACCAACAGGAGTGTGACAGTGTGACAGTGTGACAGCAGGAACTTCTGATCGGGT 1180
Qy 1242 ACTTACAGACCCAGGAGTGTGACAGTGTGACAGTGTGACAGCAGGAACTTCTGATCGGGT 1301
Db 1181 ACTTACAGACCCAGGAGTGTGACAGTGTGACAGTGTGACAGCAGGAACTTCTGATCGGGT 1240
Qy 1302 ACTTTTGGCTTTGGGAGCTGTACACACCGG 1334
Db 1241 AGTTTGGCTTTGGGAGCTGTACACACCGG 1273

RESULT 2
AX191493
LOCUS AX191493 1341 bp DNA linear PAT 15-AUG-2001
DEFINITION Sequence 15 from Patent WO0149728.
ACCESSION AX191493
VERSION AX191493.1 GI:15209675
KEYWORDS human.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1341)
AUTHORS Kato, S. and Kimura, T.
TITLE Human proteins having hydrophobic domains and dnas encoding these
JOURNAL Patent: WO 0149728-A 15 12-JUL-2001;
Proteome Inc. (JP); SAGAMI CHEMICAL RESEARCH CENTER (JP)
FEATURES
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Location/Qualifiers
1..1341
/db_xref="taxon:9606"
/organism="Homo sapiens"
BASE COUNT 260 a 420 c 414 g 247 t
ORIGIN

Query Match 53.7%; Score 1008; DB 6; Length 1341;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1208; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 123 ATGCTGATCCAGAGACCTCCCTGGCGGGGGGATCTCTTGGCTGTGCTCTGGGCCCTC 182
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Mon Dec 30 09:16:06 2002

us-09-944-896-49.olilo.rge

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Db 1081 GACAGTGAAGTTCGAGACCAAGAACTTCTGGATCGGGTCACTACAAAGACCGCCAAAGGAC 1140
Qy 1263 TCTCTCCGCTGGCCACAGGGAGCAGCAGCCCTTACCAGCTTTTGGCTTTGGGAGGCT 1322
Db 1141 TCTCTCCGCTGGCCACAGGGAGCAGCAGCCCTTACCAGCTTTTGGCTTTGGGAGGCT 1200
Qy 1323 GACAACACGGG 1334
Db 1201 GACAACACGGG 1212

RESULT 3
LOCUS AX366554 690 bp DNA linear PAT 15-FEB-2002
DEFINITION Sequence 321 from Patent WO0206317.
ACCESSION AX366554
VERSION AX366554.1 GI:18697979
KEYWORDS human.
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
REFERENCE Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS Mitcham,J.L., King,G.E., Algate,P.A., Eling,S.P., Retter,M.W.,
Fanger,G.R., Reed,S.G., Vedvick,T.S., Carter,D., Hill,P. and
Albone,E.
TITLE Compositions and methods for the therapy and diagnosis of ovarian
cancer
JOURNAL Patent: WO 0206317-A 321 24-JAN-2002;
CORIAX CORPORATION (US)
FEATURES
source Location/Qualifiers
1 .690
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 148 a 197 c 212 g 131 t 2 others
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Query Match 25.9%; Score 485; DB 6; Length 690;
Best Local Similarity 100.0%; Pred. No. 2.1e-272; Indels 0; Gaps 0;
Matches 485; Conservative 0; Mismatches 0;

Qy 604 TGGGCTGTGGGGCGGACCTGTCTCTGCAGGCGAGACAGCATAGAGCCCTTTGTCTGTG 663
Db 1 TGGGCTGTGGGGCGGACCTGTCTCTGCAGGCGAGACAGCATAGAGCCCTTTGTCTGTG 60
Qy 664 CCTACTCCCGGAGGCAACTGGAGGTCAACGGGAAGACAATCATCCCTATAGAAGG 723
Db 61 CCTACTCCCGGAGGCAACTGGAGGTCAACGGGAAGACAATCATCCCTATAGAAGG 120
Qy 724 GTGCTGTGTCTCTGCAGGCGAGTCTCTCAGGCTGCTTCAAGAGCTGGGACCATG 783
Db 121 GTGCTGTGTCTCTGCAGGCGAGTCTCTCAGGCTGCTTCAAGAGCTGGGACCATG 180
Qy 784 CAGGGGGGCTGTGTAGGTCTCCAGGAATCTTGTCTGATGAGTGTCCAGAACCATGGAC 843
Db 181 CAGGGGGGCTGTGTAGGTCTCCAGGAATCTTGTCTGATGAGTGTCCAGAACCATGGAC 240
Qy 844 GTCTCAACATCAGCACTGCCACTGCCACTGTCCCTGCTACACGGGAGATAGTCC 903
Db 241 GTCTCAACATCAGCACTGCCACTGCCACTGTCCCTGCTACACGGGAGATAGTCC 300
Qy 904 AAGTGAAGTGCAGCTTGCAGTGTGTGTGCAGCGCGGGTTCGGGGAGGAGGTGCTCGTGG 963
Db 301 AAGTGAAGTGCAGCTTGCAGTGTGTGTGCAGCGCGGGTTCGGGGAGGAGGTGCTCGTGG 360
Qy 964 TCTGTGACATCGCTCAGGGGGAGCCAGTGTGCCACCAAGGTGCATTTCCCTTCCACA 1023
Db 361 TCTGTGACATCGCTCAGGGGGAGCCAGTGTGCCACCAAGGTGCATTTCCCTTCCACA 420
Qy 1024 CTTGTGACCTGAGGATCGACGGAGACTGCTTCAATGTTGTCTTCAAGAGGAGACACTATT 1083
Db 421 CTTGTGACCTGAGGATCGACGGAGACTGCTTCAATGTTGTCTTCAAGAGGAGACACTATT 480
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Qy 1084 ACAGA 1088
Db 481 ACAGA 485

RESULT 4
LOCUS HSM804652 3293 bp mRNA linear PRI 10-JUL-2002
DEFINITION Homo sapiens mRNA; cDNA DKFP686E1934 (from clone DKFP686E1934).
ACCESSION AL833339
VERSION AL833339.1 GI:21733974
KEYWORDS human.
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
REFERENCE Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS Ottenwaelder,B., Obermaier,B., Mewes,H.W., Weill,B., Amid,C. and
Wiemann,S.
TITLE Direct Submission
JOURNAL Submitted (09-JUL-2002) 1, D-85764 Neuherberg, GERMANY
COMMENT Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;
sequenced by Medigenomix (Martinsried/Germany) within the cDNA
sequencing consortium of the German Genome Project. This clone
(DKFZp686E1934) is available at the RZPD in Berlin. Please contact
the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de Further
information about the clone and the sequencing project is available
at http://mips.gsf.de/proj/cDNA/.
FEATURES
source Location/Qualifiers
1 .3293
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="DKFP686E1934"
/tissue_type="cDNA-collection"
/clone_lib="686 (synonym: hlcc3). Vector pSport1_sfi; host
DH10B; sites SfiIA + SfiIB"
/dev_stage="adult"
polyA_signal 3171..3176
polyA_site 3190
BASE COUNT 783 a 946 c 967 g 597 t
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Query Match 25.7%; Score 483; DB 9; Length 3293;
Best Local Similarity 99.0%; Pred. No. 3.2e-271;
Matches 983; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 7 TGTCCACGAGCCAGCCTGACTCTCTGGAGATTGTGAATAGCTTCCATCCAGCCTGAGAAAC 66
Db 78 TGTCCACGAGCCAGCCTGACTCTCTGGAGATTGTGAATAGCTTCCATCCAGCCTGAGAAAC 137
Qy 67 AAGCCGGGTGGCTGAGCCAGGCTGTGCACGGAGCACCTTGACGGGGCCCAACAGACCATGC 126
Db 138 AAGCCGGGTGGCTGAGCCAGGCTGTGCACGGAGCGCCTTGACGGGGCCCAACAGACCATGC 197
Qy 127 TGCATCCAGAGACTCTCCCTTGGCCGGGGCATCTCTGGCTGTCTCTGGCCCTCTTGG 186
Db 198 TGCATCCAGAGACTCTCCCTTGGCCGGGGCATCTCTGGCTGTCTCTGGCCCTCTTGG 257
Qy 187 GCACCACTTGGGAGAGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCCGGAG 246
Db 258 GCACCGGCTGGGAGAGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCCGGAG 317
Qy 247 CCCTGAACAGAGAGAGAGTTTCTTGTCTCTCTCCCTGCACAAACCCCTTGGCAGCTGGG 306
Db 318 CCCTGAACAGAGAGAGAGTTTCTTGTCTCTCTCCCTGCACAAACCCCTTGGCAGCTGGG 377
Qy 307 TCACGCCCTTGGCGCTGACATGGGAGCTGGAGTGGAGTGCACAGCTGGCCCAACTGG 366
Db 378 TCACGCCCTTGGCGCTGACATGGGAGCTGGAGTGGAGTGCACAGCTGGCCCAACTGG 437
Qy 367 CTCAAGCCAGGGCAGCCCTCTGTGGAATCCCAACCCGAGCCTGGGCATCGGCGCTGTGGC 426
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Direct Submission  
Submitted (09-JUL-2002) Production Sequencing Facility, DOE Joint  
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA  
-----Genome Center  
Center: Joint Genome Institute  
Center Code: JGI  
Web site: http://www.jgi.doe.gov  
-----  
Project Information  
Center Project Name: 558525  
Center clone name: RPCI-11\_396D24  
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Summary Statistics  
Consensus quality: 191546 bases at least Q40  
Consensus quality: 193703 bases at least Q30  
Consensus quality: 194840 bases at least Q20  
Estimated insert size: 0; null estimation  
Quality coverage: 2.1474836E7 in Q20 bases; null estimation  
Quality coverage: 8.2 in Q20 bases; sum-of-contigs estimation.  
\* NOTE: This is a 'working draft' sequence. It currently  
\* consists of 10 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence  
\* as soon as it is available and the accession number will  
\* be preserved.  
\* 1600: contig of 1600 bp in length  
\* 1700: gap of unknown length  
\* 1701: contig of 1766 bp in length  
\* 3467: gap of unknown length  
\* 3567: contig of 2143 bp in length  
\* 5710: gap of unknown length  
\* 5810: contig of 1991 bp in length  
\* 7801: gap of unknown length  
\* 7901: contig of 6827 bp in length  
\* 14828: gap of unknown length  
\* 14828: contig of 12049 bp in length  
\* 26877: gap of unknown length  
\* 26977: contig of 19736 bp in length  
\* 46713: gap of unknown length  
\* 46813: contig of 2317 bp in length  
\* 70130: gap of unknown length  
\* 70230: contig of 23383 bp in length  
\* 93613: gap of unknown length  
\* 93713: 197460: contig of 103748 bp in length.  
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1 - 197460  
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/db\_xref="taxon:9606"  
/chromosome="16"  
/clone="RP11-396D24"  
/clone\_lib="RPCI human BAC library 11"  
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BASE COUNT  
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Query Match 22.1%; Score 414; DB 2; Length 197460;  
Best Local Similarity 100.0%; Pred. No. 1.1e-230;  
Matches 414; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1452 GCCCAGGAGCACATCTCCCGTGGGGCCAGGGTCTGAGGCTGACACATGGCTCCCT 1511  
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QY 1512 CGCTGTCCTGGGAGCACCGGCTCTGCTTACTGTGTCGCCACCTCTCTGGAACAAGGGC 1571  
Db 134963 CGCTGTCCTGGGAGCACCGGCTCTGCTTACTGTGTCGCCACCTCTCTGGAACAAGGGC 135022  
QY 1572 CAGGTTAAGACCATGCTCTATGTCCTCAAGAGAGGCTCTGAGACATGCCAGAAG 1631  
Db 135023 CAGGTTAAGACCATGCTCTATGTCCTCAAGAGAGGCTCTGAGACATGCCAGAAG 135082

Drive, Walnut Creek, CA 94598, USA  
4 (bases 1 to 177479)  
DOE Joint Genome Institute and Stanford Human Genome Center.  
Direct Submission  
Submitted (28-FEB-2002) DOE Joint Genome Institute, 2800 Mitchell  
Drive, Walnut Creek, CA 94598, USA  
On Feb 28, 2002 this sequence version replaced gi:18071320.  
Draft Sequence Produced by DOE Joint Genome Institute  
www.jgi.doe.gov  
Finishing Completed at Stanford Human Genome Center  
www.shgc.stanford.edu  
Quality: Phrap Quality >=40 99.9% of Sequence;  
Estimated Total Number of Errors is 0.2.  
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Matches 414; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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QY 1512 CGCTGTCCTGGGAGCACCGGCTCTGCTTACTGTGTCGCCACCTCTGTTGAACAAGGGC 1571  
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QY 1572 CAGGTTAAGACCATGCTCTATGTCCTCAAGAGAGTCTCAGACCTTGACAAATGCCAGAAG 1631  
Db 144364 CAGGTTAAGACCATGCTCTATGTCCTCAAGAGAGTCTCAGACCTTGACAAATGCCAGAAG 144423  
QY 1632 TTGGCAGAGAGAGCAGGAGCCAGTACAGGCGGAGTACAGTCTTAAATATGATCAGCTGAA 1865  
Db 144424 TTGGCAGAGAGAGCAGGAGCCAGTACAGGCGGAGTACAGTCTTAAATATGATCAGCTGAA 144483  
QY 1692 GGGCCCTTCGCTGCTTTTGTATGGGAAGATGGGCTTCAATTAGATGGCGAAGAGAGGA 1751  
Db 144484 GGGCCCTTCGCTGCTTTTGTATGGGAAGATGGGCTTCAATTAGATGGCGAAGAGAGGA 144543  
QY 1752 CACCCGCAAGTGTCCAAAGAGTGTCTCTCCACCTGCGCCAGACCCCTGTGGGGCAGC 1811  
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QY 1812 GGAGCTTCCCTGTCGATCAACCCACGGGTATTAAATATGATCAGCTGAA 1865  
Db 144604 GGAGCTTCCCTGTCGATCAACCCACGGGTATTAAATATGATCAGCTGAA 144657  
RESULT 7  
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LOCUS Homo sapiens chromosome 16 clone RP11-396D24, \*\*\* SEQUENCING IN  
DEFINITION PROGRESS \*\*\*, 10 unordered pieces.  
AC126771  
VERSION AC126771.1 GI:21717140  
KEYWORDS HTG; HTGS\_PHASE1.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 197460)  
DOE Joint Genome Institute.  
TITLE Sequencing of Human Chromosome 16  
JOURNAL Unpublished  
AUTHORS 2 (bases 1 to 197460)  
DOE Joint Genome Institute.





unordered pieces.  
AC097265  
VERSION  
HTG: HTGS\_PHASE1; HTGS\_DRAFT; HTGS\_FULLTOP; HTGS\_ACTIVEFIN.  
KEYWORDS  
SOURCE  
ORGANISM

REFERENCE  
AUTHORS

EuKaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Pan.  
1 (bases 1 to 191108)  
Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-osman,F.R., Allen,C., Alsbrooks,S.L., Amaratunge,H.C., Are,J.R., Banks,T., Barbara,J., Benton,J., Bimaga,K., Blankenburg,K., Bonnin,D., Bouck,J., Bowie,S., Brieva,M., Brown,E., Brown,M., Bryant,N.P., Buhay,C., Burck,P., Burkett,C., Burrell,K.L., Byrd,N.C., Carron,T.F., Carter,M., Cavazos,S.R., Chacko,J., Chavez,D., Chen,G., Chen,R., Chen,Z., Chowdhry,I., Christopoulos,C., Cleveland,C.D., Cox,C., Coyle,M.D., Dathorne,S.R., David,R., Davila,M.L., Davis,C., Davy-Carroll,L., Dederich,D.A., Delaney,K.R., Delgado,O., Denn,A.L., Ding,Y., Dinh,H.H., Douthwaite,K.J., Draper,H., Dugan-Rocha,S., Durbin,K.J., Earhart,C., Edgar,D., Edwards,C.C., Elhaj,C., Escotto,M., Falls,T., Ferraguto,D., Flagg,N., Ford,J., Foster,P., Frantz,P., Gabisi,A., Gao,J., Garcia,A., Garner,T., Garza,N., Gill,R., Gorrell,J.H., Guevara,W., Gunaratne,P., Hale,S., Hamilton,K., Harris,C., Harris,K., Hart,M., Havlak,P., Hawes,A., Hernandez,J., Hernandez,O., Hodgson,A., Hogues,M., Holloway,C., Hollins,B., Homs,F., Howard,S., Huber,J., Hulyk,S., Hume,J., Jackson,L.E., Jacobson,B., Jia,Y., Johnson,R., Jolivet,S., Joudah,S., Karlsson,E., Kelly,S., Khan,U., King,L., Korvah,J., Kovar,C., Kratovic,J., Kureshi,A., Landry,N., Leal,B., Lewis,L.C., Lewis,L., Li,J., Li,Z., Lichtarge,O., Lieu,C., Liu,J., Liu,W., Louie,H., Lozada,M., Mapu,P., Martin,R., Lucier,R., Luna,R., Ma,J., Maheshwari,M., Raju,X., Lucier,A., Lucier,R., Luna,R., Martinez,E., Massey,E., Mawhney,E., McLeod,M.P., Meador,M., Mei,G., Metzker,M., Miner,G., Miner,Z., Mitchell,T., Mohabbat,K., Morgan,M., Morris,S., Moser,M., Neal,D., Newton,J., Newton,N., Nguyen,A., Nguyen,N., Nguyen,N., Nickerson,E., Nwokenkwo,S., Oguh,M., Okwunigbo,G., Oragunye,N., Owiedo,R., Pace,A., Payton,B., Peery,L., Perez,L., Peters,L., Pickens,R., Primus,E., Pu,L.L., Quiles,M., Ren,Y., Rives,M., Rojas,A., Rojibokan,I., Rolfe,M., Ruiz,S., Savery,G., Scherer,S., Scott,G., Shen,H., Shoohtari,N., Sisson,I., Sodergren,E., Sonaik,T., Sparks,A., Stanley,H., Stone,H., Sutton,A., Svatek,A., Tabor,P., Tamerisa,A., Tamerisa,K., Tang,H., Tapsey,J., Taylor,C., Taylor,T., Telford,B., Thomas,N., Thomas,S., Usmani,K., Vasquez,L., Vera,V., Villalon,D., Vinson,R., Wall,R., Wang,S., Ward-Moore,S., Warren,R., Washington,C., Watlington,S., Williams,G., Williamson,A., Wleczky,R., Wooden,S., Worley,K., Wu,C., Wu,Y.F., Zhou,J., Zorrilla,S., Nelson,D., Weinstein,G., and Gibbs,R.

TITLE  
JOURNAL  
REFERENCE  
AUTHORS  
TITLE  
JOURNAL

COMMENT

2 (bases 1 to 191108)

Worley,K.C.

Direct Submission

Submitted (13-OCT-2001) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA

On Oct 23, 2001 this sequence version replaced gi:16258969.

----- Genome Center

Center: Baylor College of Medicine

Center code: BCM

Web site: <http://www.hgsc.bcm.tmc.edu/>

Contact: [hgsc-help@bcm.tmc.edu](mailto:hgsc-help@bcm.tmc.edu)

----- Project Information

Center project name: ZUAR

Center clone name: RP43-119N13

----- Summary Statistics

Sequencing vector: Plasmid; M7789

Chemistry: Dye-terminator Big Dye; 100% of reads

Assembly program: Phrap; version 0.990329

Consensus quality: 19184 bases at least Q40

Consensus quality: 193054 bases at least Q30

Consensus quality: 194113 bases at least Q20

Estimated insert size: 193275; sum-of-contigs estimation

Quality coverage: 0x in Q20 bases; agarose-fp estimation  
Quality coverage: 9.3x in Q20 bases; sum-of-contigs estimation

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\* NOTE: Estimated insert size may differ from sequence length (see [http://www.hgsc.bcm.tmc.edu/docs/Genbank\\_draft\\_data.html](http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html)).  
\* NOTE: This is a 'working draft' sequence. It currently consists of 4 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

\* 1 121806: contig of 121806 bp in length  
\* 121807 121906: gap of unknown length  
\* 121907 172531: contig of 50625 bp in length  
\* 172532 172631: gap of unknown length  
\* 172632 180970: contig of 8339 bp in length  
\* 180971 181070: gap of unknown length  
\* 181071 191108: contig of 10038 bp in length.

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BASE COUNT 49835 a 45817 c 45055 g 50100 t 301 others  
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Best Local Similarity 100.0%; Pred. No. 4.5e-156;  
Matches 287; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 54247 GCCAGGAGACATCTCCCGTGGGGCCAGGCTCTGAGGCTGACCATGGTCCCT 54188  
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Db 54187 CGCTGCCCTGGGAGCACCAGCTCTGCTTACCTGTGCCCCACCTGTGGAACAGGCG 54128  
QY 1572 CAGGTTAAGACCATGCTTCATGTCCTCAAGAGGTCTCAGACCTTGCCAAATGCCAGAAG 1631  
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Db 54127 CAGGTTAAGACCATGCTTCATGTCCTCAAGAGGTCTCAGACCTTGCCAAATGCCAGAAG 54068  
QY 1632 TTGGGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1691  
Db 54067 TTGGGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 54008  
QY 1692 GGSCCCTTCGCTTCTTTTGGGAGAGATGGGCTTCAATTAGATG 1738  
|||||  
Db 54007 GGSCCCTTCGCTTCTTTTGGGAGAGATGGGCTTCAATTAGATG 53961

RESULT 12

AC009060

LOCUS

DEFINITION

AC009060

ACCESSION

AC009060.7

GI:9690317

HTG.

KEYWORDS

SOURCE

ORGANISM

Homo sapiens

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

1 (bases 1 to 180596)

DOE Joint Genome Institute

Unpublished

Direct Submission

2 (bases 1 to 180596)

DOE Joint Genome Institute.

Direct Submission

Submitted (03-AUG-1999) Production Sequencing Facility, DOE Joint

Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA



\* NOTE: Estimated insert size may differ from sequence length  
(see [http://www.hgsc.bcm.tmc.edu/docs/Genbank\\_draft\\_data.html](http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html)).  
\* NOTE: This is a 'working draft' sequence. It currently  
\* consists of 14 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence  
\* as soon as it is available and the accession number will  
\* be preserved.

\* 1 39411: contig of 39411 bp in length  
\* 39412 39511: gap of unknown length  
\* 39512 61929: contig of 22418 bp in length  
\* 61930 62029: gap of unknown length  
\* 62030 87446: contig of 25417 bp in length  
\* 87447 87546: gap of unknown length  
\* 87547 113623: contig of 26077 bp in length  
\* 113624 113724: gap of unknown length  
\* 113724 130749: contig of 17025 bp in length  
\* 130749 130849: gap of unknown length  
\* 130849 142400: contig of 11552 bp in length  
\* 142401 142500: gap of unknown length  
\* 142501 156750: contig of 14250 bp in length  
\* 156751 156850: gap of unknown length  
\* 156851 169557: contig of 12707 bp in length  
\* 169558 169657: gap of unknown length  
\* 169658 179740: contig of 10083 bp in length  
\* 179741 179840: gap of unknown length  
\* 179841 191738: contig of 11898 bp in length  
\* 191739 191838: gap of unknown length  
\* 191839 193991: contig of 2153 bp in length  
\* 193992 194091: gap of unknown length  
\* 194092 196138: contig of 2047 bp in length  
\* 196139 196238: gap of unknown length  
\* 196239 198281: contig of 2043 bp in length  
\* 198282 198381: gap of unknown length  
\* 198382 200409: contig of 2028 bp in length.

## FEATURES

source

1. 200409  
/organism="Pan troglodytes"  
/db\_xref="taxon:9598"  
/clone="RP43-53A2"

BASE COUNT 55207 a 46732 c 45615 g 51554 t 1301 others  
ORIGIN

Query Match 10.4% Score 195; DB 2: Length 200409;  
Best Local Similarity 99.68; Pred No. 4.9e-102;  
Matches 245; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 CTCCTTTGTCCACGAGCCCGCTGACTCTCTGGAGATTGTGAATAGCTCCATCCAGCCTG 60  
Db 154423 CTCCTTTGTCCACGAGCCCGCTGACTCTCTGGAGATTGTGAATAGCTCCATCCAGCCTG 154482  
QY 61 AGAACAGCGGGTGTGCTGAGCAGCTGTGTCAGCGAGACCTGTGACGGCCCAACAGAC 120  
Db 154483 AGAACAGCGGGTGTGCTGAGCAGCTGTGTCAGCGAGACCTGTGACGGCCCAACAGAC 154542  
QY 121 CCATGCTGCATCCAGAGACCTCCCTCGCGGGGCGCATCTCTGCTGCTGCTCGGCC 180  
Db 154543 CCATGCTGCATCCAGAGACCTCCCTCGCGGGGCGCATCTCTGCTGCTGCTCGGCC 154602  
QY 181 TCCTTGGCACACCTGGGCGAGAGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGG 240  
Db 154603 TCCTTGGCACACCTGGGCGAGAGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGG 154662  
QY 241 CCGGAG 246  
Db 154663 CCGGAG 154668

RESULT 14

AC097271

LOCUS

204182 bp DNA linear HTG 20-OCT-2001

AC097271

## DEFINITION

## ACCESSION

## VERSION

## KEYWORDS

## SOURCE

## ORGANISM

## REFERENCE

## AUTHORS

Pan troglodytes clone RP43-35B16, WORKING DRAFT SEQUENCE, 8  
unordered pieces.  
AC097271.1 GI:16117534  
HTG; HTGS\_PHASE1; HTGS\_DRAFT; HTGS\_FULLTOP.  
Pan troglodytes.  
Pan troglodytes.  
Pan troglodytes.  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.  
1 (bases 1 to 204182)

Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-Osman,F.R., Allen,C.,  
Alsbrooks,S.L., Amaratunge,H.C., Are,J.R., Banks,T., Barbara,J.,  
Benton,J., Bimage,K., Blankenburg,K., Bonnin,D., Bouck,J.,  
Bowie,S., Brieva,M., Brown,E., Brown,M., Bryant,N.P., Bunay,C.,  
Burck,P., Burkett,C., Burrell,K.L., Byrd,N.C., Carron,T.F.,  
Carter,M., Cavazos,S.R., Chacko,J., Chavez,D., Chen,G., Chen,R.,  
Chen,Z., Chowdhry,I., Christopoulos,C., Cleveland,C.D., Cox,C.,  
Coyle,M.D., Dathorne,S.R., David,R., Davila,M.L., Davis,C.,  
Davy-Carroll,L., Dederich,D.A., Delaney,K.R., Delgado,O.,  
Denn,A.L., Ding,Y., Dinh,H.H., Douthwaite,K.J., Draper,H.,  
Dugan-Rocha,S., Durbin,K.J., Earnhart,C., Edgar,D., Edwards,C.C.,  
Elhaj,C., Escotto,M., Falls,T., Ferraguto,D., Flagg,N., Ford,J.,  
Foster,P., Frantz,P., Gabisi,A., Gao,J., Garcia,A., Garner,T.,  
Garza,N., Gill,R., Gorrell,J.H., Guevara,W., Gunaratne,P., Hale,S.,  
Hamilton,K., Harris,C., Harris,K., Hart,M., Havlak,P., Hawes,A.,  
Hernandez,J., Hernandez,O., Hodgson,A., Hogues,M., Holloway,C.,  
Hollins,B., Homsli,F., Howard,S., Huber,J., Hulyk,S., Hume,J.,  
Jackson,L.E., Jacobson,B., Jia,Y., Johnson,R., Jolivet,S.,  
Joudah,S., Karlsson,E., Kelly,S., Khan,U., King,L., Korvah,J.,  
Kovar,C., Kratovic,J., Kureshi,A., Landry,N., Leal,B., Lewis,L.C.,  
Lewis,L., Li,J., Li,Z., Lichtarge,O., Lieu,C., Liu,J., Liu,W.,  
Loulsegh,H., Lozano,R.J., Lu,X., Lucier,A., Lucier,R., Luna,R.,  
Ma,J., Maheshwari,M., Mapua,P., Martin,R., Martindale,A.,  
Martinez,E., Massey,E., Mawhiney,E., McLeod,M.P., Meador,M.,  
Mei,G., Metzker,M., Miner,G., Miner,Z., Mitchell,T., Mohabbat,K.,  
Morgan,M., Morris,S., Moser,M., Neal,D., Newton,J., Newton,N.,  
Nguyen,A., Nguyen,S., Nguyen,N., Nickerson,E., Nwokenkwo,S.,  
Ogih,M., Okwuonu,G., Oragunye,N., Oviedo,R., Pace,A., Payton,B.,  
Peery,J., Perez,L., Peters,L., Pickens,R., Primus,E., Pu,L.L.,  
Quiles,M., Ren,Y., Rives,M., Rojas,A., Rojibokan,I., Rolfe,M.,  
Ruiz,S., Savary,G., Scherer,S., Scott,G., Shen,H., Shoohtari,N.,  
Sisson,I., Sodergren,E., Sonaite,T., Sparks,A., Stanley,H.,  
Stone,H., Sutton,A., Svatek,A., Tabor,P., Tamerisa,A., Tamerisa,K.,  
Tang,H., Tansey,J., Taylor,C., Taylor,T., Telford,B., Thomas,N.,  
Thomas,S., Usmani,K., Vasquez,L., Vera,V., Villalob,D., Vinson,R.,  
Wall,R., Wang,S., Ward-Moore,S., Warren,R., Washington,C.,  
Watlington,S., Williams,G., Williamson,A., Wleczkyk,R., Woodden,S.,  
Worley,K., Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Nelson,D.,  
Weinstock,G. and Gibbs,R.

## Unpublished

2 (bases 1 to 204182)

Worley,K.C.

Direct Submission

Submitted (13-OCT-2001)

Human Genome Sequencing Center, Department

of Molecular and Human Genetics, Baylor College of Medicine, One

Baylor Plaza, Houston, TX 77030, USA

----- Genome Center

Center: Baylor College of Medicine

Center code: BCM

Web site: <http://www.hgsc.bcm.tmc.edu/>Contact: [hgsc-help@bcm.tmc.edu](mailto:hgsc-help@bcm.tmc.edu)

----- Project Information

Center project name: ZUAY

Center clone name: RP43-35B16

----- Summary Statistics

Sequencing vector: Plasmid: M77789

Chemistry: Dye-terminator Big Dye: 100% of reads

Assembly program: Phrap; version 0.990329

Consensus quality: 202604 bases at least Q40

Consensus quality: 204032 bases at least Q30

Consensus quality: 205164 bases at least Q20

Estimated insert size: 200244; sum-of-contigs estimation

Quality coverage: 0x in Q20 bases; agarose-fp estimation  
Quality coverage: 9.4x in Q20 bases; sum-of-ctnigs estimation  
-----  
\* NOTE: Estimated insert size may differ from sequence length  
\* (see [http://www.hsc.tmc.edu/docs/genbank\\_draft\\_data.html](http://www.hsc.tmc.edu/docs/genbank_draft_data.html)).  
\* consists of 8 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence.  
\* as soon as it is available and the accession number will  
\* be preserved.

1 48992: contig of 48992 bp in length  
\* 48993 49092: gap of unknown length  
\* 49093 90442: contig of 41350 bp in length  
\* 90443 90542: gap of unknown length  
\* 90543 124888: contig of 34346 bp in length  
\* 124889 124988: gap of unknown length  
\* 124989 145269: contig of 20281 bp in length  
\* 145270 145369: gap of unknown length  
\* 145370 173261: contig of 27892 bp in length  
\* 173262 173361: gap of unknown length  
\* 173362 186532: contig of 13171 bp in length  
\* 186533 186632: gap of unknown length  
\* 186633 201672: contig of 15040 bp in length  
\* 201673 201772: gap of unknown length  
\* 201773 204182: contig of 2410 bp in length.

## FEATURES

Location/Qualifiers  
1. 204182  
/organism="Pan troglodytes"  
/db\_xref="taxon:9598"  
/clone="RP43-35B16"

BASE COUNT 52711 a 50970 c 50521 g 49254 t 726 others  
ORIGIN

Query Match 10.4%; Score 195; DB 2; Length 204182;  
Best Local Similarity 99.6%; Pred. No. 4.9e-102;  
Matches 245; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTCTTTTGTCCACGAGCCGCTGACCTCTGGAGATTGTGAATAGCTCCATCCAGCCCTG 60  
|||||  
Db 5214 CTCTTTTGTCCACGAGCCGCTGACCTCTGGAGATTGTGAATAGCTCCATCCAGCCCTG 5273

QY 61 AGAAACAAGCGGGTGGTGTGACGAGCGCTGTGCACGGAGCAGCTGACGGGCCCAACAGAC 120  
|||||  
Db 5274 AGAAACAAGCGGGTGGTGTGACGAGCGCTGTGCACGGAGCAGCTGACGGGCCCAACAGAC 5333

QY 121 CCATGCTGCATCCAGAGACCTCCCTGCGGGGGGCGATCTCTGGCTGTGCTCTGGCC 180  
|||||  
Db 5334 CCATGCTGCATCCAGAGACCTCCCTGCGGGGGGCGATCTCTGGCTGTGCTCTGGCC 5393

QY 181 TCCTTGGCACACCTGGGACAGGTTGGCCACCCAGCTGCGAGGAGGCTCCGATGG 240  
|||||  
Db 5394 TCCTTGGCACACCTGGGACAGGTTGGCCACCCAGCTGCGAGGAGGCTCCGATGG 5453

QY 241 CCGGAG 246  
|||||  
Db 5454 CCGGAG 5459

## RESULT 15

AC009125/c  
LOCUS AC009125 205044 bp DNA linear HTG 21-JUN-2000  
DEFINITION Homo sapiens chromosome 16 clone RP11-492H8, WORKING DRAFT  
SEQUENCE, 60 unordered pieces.  
AC009125  
ACCESSION AC009125.5 GI:8575963  
VERSION HTG; HTGS\_PHASE1; HTGS\_DRAFT.  
KEYWORDS Homo sapiens.  
SOURCE Homo sapiens.  
ORGANISM Homo sapiens.  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

## REFERENCE

1 (bases 1 to 205044)  
DOE Joint Genome Institute.  
Sequencing of Human Chromosome 16  
Unpublished  
JOURNAL  
2 (bases 1 to 205044)  
DOE Joint Genome Institute.  
Direct Submission  
JOURNAL  
Submitted (03-AUG-1999) Production Sequencing Facility, DOE Joint  
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA  
On Jun 21, 2000 this sequence version replaced gi:7689944.

## COMMENT

-----Genome Center  
Center: Joint Genome Institute  
Center Code: JGI  
Web site: <http://www.jgi.doe.gov>  
-----  
Project Information  
Center Project Name: 595469  
Center clone name: RPCI-11\_492H8  
-----  
Summary Statistics  
Consensus quality: 156671 bases at least Q40  
Consensus quality: 183548 bases at least Q30  
Consensus quality: 188961 bases at least Q20  
Estimated insert size: 189500; agarose-fp estimation  
Submitted insert size: 199144; sum-of-ctnigs estimation  
Quality coverage: 3.4 in Q20 bases; agarose-fp estimation  
Quality coverage: 3.23 in Q20 bases; sum-of-ctnigs estimation.  
\* NOTE: This is a 'working draft' sequence. It currently  
\* consists of 60 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence  
\* as soon as it is available and the accession number will  
\* be preserved.

1 1059: contig of 1059 bp in length  
\* 1060 1159: gap of unknown length  
\* 1160 2165: contig of 1006 bp in length  
\* 2166 2265: gap of unknown length  
\* 2266 3328: contig of 1063 bp in length  
\* 3329 3428: gap of unknown length  
\* 3429 4435: contig of 1007 bp in length  
\* 4436 4535: gap of unknown length  
\* 4536 5539: contig of 1004 bp in length  
\* 5540 5639: gap of unknown length  
\* 5640 6729: contig of 1090 bp in length  
\* 6730 6829: gap of unknown length  
\* 6830 8057: contig of 1228 bp in length  
\* 8058 8157: gap of unknown length  
\* 8158 9286: contig of 1129 bp in length  
\* 9287 9386: gap of unknown length  
\* 9387 10700: contig of 1314 bp in length  
\* 10701 10800: gap of unknown length  
\* 10801 11829: contig of 1029 bp in length  
\* 11830 11929: gap of unknown length  
\* 11930 13279: contig of 1350 bp in length  
\* 13280 13379: gap of unknown length  
\* 13380 14619: contig of 1240 bp in length  
\* 14620 14719: gap of unknown length  
\* 14720 15934: contig of 1215 bp in length  
\* 15935 16034: gap of unknown length  
\* 16035 17350: contig of 1316 bp in length  
\* 17351 17450: gap of unknown length  
\* 17451 19063: contig of 1613 bp in length  
\* 19064 19163: gap of unknown length  
\* 19164 20431: contig of 1268 bp in length  
\* 20432 20531: gap of unknown length  
\* 20532 21622: contig of 1091 bp in length  
\* 21623 21722: gap of unknown length  
\* 21723 23188: contig of 1466 bp in length  
\* 23189 23288: gap of unknown length  
\* 23289 24522: contig of 1234 bp in length  
\* 24523 24622: gap of unknown length



24623 25921: contig of 1299 bp in length  
 25922 26021: gap of unknown length  
 26022 27292: contig of 1271 bp in length  
 27293 27393: gap of unknown length  
 27394 28954: contig of 1562 bp in length  
 28955 29034: gap of unknown length  
 29035 30763: contig of 1709 bp in length  
 30764 30863: gap of unknown length  
 30864 32893: contig of 2030 bp in length  
 32894 32993: gap of unknown length  
 32994 34328: contig of 1235 bp in length  
 34329 34329: gap of unknown length  
 34330 36130: gap of unknown length  
 36131 38136: contig of 1907 bp in length  
 38137 38236: gap of unknown length  
 38237 39974: contig of 1738 bp in length  
 39975 40074: gap of unknown length  
 40075 41564: contig of 1490 bp in length  
 41565 43566: contig of 1902 bp in length  
 43567 45289: contig of 1623 bp in length  
 45290 47644: gap of unknown length  
 47645 50582: contig of 2255 bp in length  
 50583 53054: contig of 2838 bp in length  
 53055 54755: contig of 2372 bp in length  
 54756 57563: contig of 1601 bp in length  
 57564 57663: gap of unknown length  
 57664 59769: contig of 2106 bp in length  
 59770 61957: gap of unknown length  
 61958 62057: gap of unknown length  
 62059 65392: contig of 3335 bp in length  
 65393 68420: gap of unknown length  
 68421 68520: contig of 2928 bp in length  
 68521 71230: gap of unknown length  
 71231 73330: gap of unknown length  
 73331 73729: gap of unknown length  
 73730 77869: contig of 4140 bp in length  
 77870 81037: gap of unknown length  
 81038 83328: contig of 3068 bp in length  
 83329 86409: contig of 2192 bp in length  
 86410 86509: gap of unknown length  
 86510 90134: gap of unknown length  
 90135 90235: contig of 3625 bp in length  
 90236 93917: contig of 3682 bp in length  
 93918 94016: gap of unknown length  
 94017 97181: contig of 3702 bp in length  
 97182 100965: gap of unknown length  
 100966 101066: contig of 3147 bp in length  
 101067 105156: gap of unknown length  
 105157 1105256: gap of unknown length  
 1105257 110776: contig of 4820 bp in length  
 110777 114320: gap of unknown length  
 114321 120993: contig of 4144 bp in length  
 120994 121093: gap of unknown length  
 121094 127991: contig of 6573 bp in length  
 127992 128091: contig of 6898 bp in length  
 128092 136414: contig of 8323 bp in length

\* 136415 136514: gap of unknown length  
 \* 136515 150305: contig of 13791 bp in length  
 \* 150306 150405: gap of unknown length  
 \* 150406 163992: contig of 13587 bp in length  
 \* 163993 164092: gap of unknown length  
 \* 164093 186975: contig of 22883 bp in length  
 \* 186976 187075: gap of unknown length  
 \* 187076 205044: contig of 17969 bp in length.

# FEATURES source

Location/Qualifiers  
 1. .205044  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /chromosome="16"  
 /clone="RP11-492H8"  
 /clone\_lib="RP11 human BAC library 11"  
 BASE COUNT 54631 a 45103 c 45331 g 53992 t 5987 others  
 ORIGIN

Query Match 10.1%; Score 190; DB 2; Length 205044;  
 Best Local Similarity 99.6%; Pred. No. 4.2e-99;  
 Matches 240; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 338 GGACTGGAGTGACAGCCTGGCCCAACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCC 397  
 Db 96233 GGACTGGAGTGACAGCCTGGCCCAACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCC 96174  
 QY 398 AACCCCGAGCCTGGCATCGGCTGTGGCCAGCCCTCAAGTGGGCTGGAACATGCGAGCT 457  
 Db 96173 AACCCCGAGCCTGGCATCGGCTGTGGCCAGCCCTCAAGTGGGCTGGAACATGCGAGCT 96114  
 QY 458 GCTGCCCGCGGGCTTGGCGCTCTTTGTTGAAGTGGTTCAGCTATGTTTCAGAGGGGCA 517  
 Db 96113 GCTGCCCGCGGGCTTGGCGCTCTTTGTTGAAGTGGTTCAGCTATGTTTCAGAGGGGCA 96054  
 QY 518 GCGGTACAGCCAGCGCGGAGAGAGTGTCTGCAAGCCAGCCACTGCACCCACTACAGCA 577  
 Db 96053 GCGGTACAGCCAGCGCGGAGAGAGTGTCTGCAAGCCAGCCACTGCACCCACTACAGCA 95994  
 QY 578 G 578  
 Db 95993 G 95993

# RESULT 16 AC021951

LOCUS Homo sapiens clone RP11-396D24, LOW-PASS SEQUENCE SAMPLING.  
 DEFINITION Homo sapiens clone RP11-396D24, LOW-PASS SEQUENCE SAMPLING.  
 ACCESSION AC021951  
 VERSION AC021951.2 GI:9154380  
 KEYWORDS HTG; HTGS\_PHASE0.  
 SOURCE Homo sapiens.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

# REFERENCE

1 (bases 1 to 79023)

# AUTHORS

Birren, B., Linton, L., Nusbaum, C. and Lander, E.

# TITLE

Homo sapiens, clone RP11-396D24

# JOURNAL

Unpublished

# REFERENCE

2 (bases 1 to 79023)

# AUTHORS

Birren, B., Linton, L., Nusbaum, C., Lander, E., Abraham, H., Allen, N.,  
 Anderson, S., Baldwin, J., Barna, N., Beckerly, R., Beda, F.,  
 Boguslavsky, L., Boukhgalter, B., Brown, A., Burkett, G., Castle, A.,  
 Choepel, Y., Colangelo, M., Collins, S., Collymore, A., Cooke, P.,  
 Dearlano, K., Dewar, K., Domino, M., Doyle, M., Fenestor, J.,  
 Ferreira, P., FitzHugh, W., Forrest, C., Gage, D., Galagan, J.,  
 Gardyna, S., Grant, G., Hagos, B., Heaford, A., Horton, L.,  
 Howland, J.C., Johnson, R., Jones, C., Kann, L., Karatas, A., Klein, J.,  
 Landers, T., Lechoczy, J., Levine, R., Lieu, C., Liu, G., Locke, K.,  
 MacDonald, P., Marquis, N., McEwan, P., McGurk, A., McKernan, K.,  
 McPheeters, R., Meldrim, J., Meneus, L., Morrow, J., Naylor, J.,  
 Norman, C.H., O'Connor, T., O'Donnell, P., Ollivier, T.M., Peterson, K.,  
 Pierre, N., Pisani, C., Pollara, V., Raymond, C., Riley, R., Rothman, D.,  
 Roy, A., Santos, R., Severy, P., Spencer, B., Stange-Thomann, N.,

Stojanovic,N., Subramanian,A., Talamas,J., Tesfaye,S., Theodore,J.,  
Tirrell,A., Vassiliev,H., Viel,R., Vo,A., Wu,X., Wyman,D., Ye,W.J.,  
Zimmer,A. and Zody,M.

## TITLE

## JOURNAL

## COMMENT

Direct Submission

Submitted (22-JAN-2000) Whitehead Institute/MIT Center for Genome

Research, 320 Charles Street, Cambridge, MA 02141, USA

On Jul 13, 2000 this sequence version replaced gi:6730807.

All repeats were identified using RepeatMasker:

Smit, A.F.A. & Green, P. (1996-1997)

<http://ftp.genome.washington.edu/RM/RepeatMasker.html>

----- Genome Center

Center: Whitehead Institute/ MIT Center for Genome Research

Center code: WIBR

Web site: <http://www-seq.wi.mit.edu>

Contact: [sequence\\_submissions@genome.wi.mit.edu](mailto:sequence_submissions@genome.wi.mit.edu)

----- Project Information

Center project name: L5885

Center clone name: 396\_P\_24

-----

\* NOTE: This record contains 79 individual

\* sequencing reads that have not been assembled into

\* contigs. Runs of N are used to separate the reads.

\* and the order in which they appear is completely

\* arbitrary. Low-pass sequence sampling is useful for

\* identifying clones that may be gene-rich and allows

\* overlap relationships among clones to be deduced.

\* However, it should not be assumed that this clone

\* will be sequenced to completion. In the event that

\* the record is updated, the accession number will

\* be preserved.

\* 1 909: contig of 909 bp in length

\* 910 1009: gap of 100 bp

\* 1010 1922: contig of 913 bp in length

\* 1923 2022: gap of 100 bp

\* 2023 2941: contig of 919 bp in length

\* 2942 3041: gap of 100 bp

\* 3042 3960: contig of 919 bp in length

\* 3961 4060: gap of 100 bp

\* 4061 4972: contig of 912 bp in length

\* 4973 5072: gap of 100 bp

\* 5073 5966: contig of 894 bp in length

\* 5967 6066: gap of 100 bp

\* 6067 6967: contig of 901 bp in length

\* 6968 7067: gap of 100 bp

\* 7068 7964: contig of 897 bp in length

\* 7965 8064: gap of 100 bp

\* 8065 8948: contig of 884 bp in length

\* 8949 9048: gap of 100 bp

\* 9049 9945: contig of 897 bp in length

\* 9946 10045: gap of 100 bp

\* 10046 10941: contig of 896 bp in length

\* 10942 11041: gap of 100 bp

\* 11042 11974: contig of 933 bp in length

\* 11975 12074: gap of 100 bp

\* 12075 12953: contig of 879 bp in length

\* 12954 13053: gap of 100 bp

\* 13054 13940: contig of 887 bp in length

\* 13941 14040: gap of 100 bp

\* 14041 14924: contig of 884 bp in length

\* 14925 15024: gap of 100 bp

\* 15025 15910: contig of 886 bp in length

\* 15911 16010: gap of 100 bp

\* 16011 16901: contig of 891 bp in length

\* 16902 17001: gap of 100 bp

\* 17002 17897: contig of 896 bp in length

\* 17898 17997: gap of 100 bp

\* 17998 18892: contig of 895 bp in length

\* 18893 18992: gap of 100 bp

\* 18993 19883: contig of 891 bp in length

\* 19884 19983: gap of 100 bp

\* 19984 20885: contig of 902 bp in length

\* 20886 20985: gap of 100 bp

\* 20986 21899: contig of 914 bp in length

\* 21900 21999: gap of 100 bp

\* 22000 22919: contig of 920 bp in length

\* 22920 23019: gap of 100 bp

\* 23020 23928: contig of 909 bp in length

\* 23929 24028: gap of 100 bp

\* 24029 24922: contig of 894 bp in length

\* 24923 25022: gap of 100 bp

\* 25023 25916: contig of 894 bp in length

\* 25917 26016: gap of 100 bp

\* 26017 26914: contig of 898 bp in length

\* 26915 27014: gap of 100 bp

\* 27015 27910: contig of 896 bp in length

\* 27911 28010: gap of 100 bp

\* 28011 28929: contig of 919 bp in length

\* 28930 29029: gap of 100 bp

\* 29030 29902: contig of 873 bp in length

\* 29903 30002: gap of 100 bp

\* 30003 30896: contig of 894 bp in length

\* 30897 30996: gap of 100 bp

\* 30997 31881: contig of 885 bp in length

\* 31882 31981: gap of 100 bp

\* 31982 32866: contig of 885 bp in length

\* 32867 32966: gap of 100 bp

\* 32967 33869: contig of 903 bp in length

\* 33870 33969: gap of 100 bp

\* 33970 34888: contig of 919 bp in length

\* 34889 34988: gap of 100 bp

\* 34989 35880: contig of 892 bp in length

\* 35881 35980: gap of 100 bp

\* 35981 36880: contig of 900 bp in length

\* 36881 36980: gap of 100 bp

\* 36981 37874: contig of 894 bp in length

\* 37875 37974: gap of 100 bp

\* 37975 38862: contig of 888 bp in length

\* 38863 38962: gap of 100 bp

\* 38963 39874: contig of 912 bp in length

\* 39875 39974: gap of 100 bp

\* 39975 40899: contig of 925 bp in length

\* 40900 40999: gap of 100 bp

\* 41000 41911: contig of 912 bp in length

\* 41912 42011: gap of 100 bp

\* 42012 42921: contig of 910 bp in length

\* 42922 43021: gap of 100 bp

\* 43022 43934: contig of 913 bp in length

\* 43935 44034: gap of 100 bp

\* 44035 44952: contig of 918 bp in length

\* 44953 45052: gap of 100 bp

\* 45053 45950: contig of 898 bp in length

\* 45951 46050: gap of 100 bp

\* 46051 46928: contig of 878 bp in length

\* 46929 47028: gap of 100 bp

\* 47029 47925: contig of 897 bp in length

\* 47926 48025: gap of 100 bp

\* 48026 48922: contig of 897 bp in length

\* 48923 49022: gap of 100 bp

\* 49023 49923: contig of 901 bp in length

\* 49924 50023: gap of 100 bp

\* 50024 50908: contig of 885 bp in length

\* 50909 51008: gap of 100 bp

\* 51009 51918: contig of 910 bp in length

\* 51919 52018: gap of 100 bp

\* 52019 52934: contig of 916 bp in length

\* 52935 53034: gap of 100 bp

\* 53035 53922: contig of 888 bp in length

\* 53923 54022: gap of 100 bp

\* 54023 54914: contig of 892 bp in length

\* 54915 55014: gap of 100 bp

\* 55015 55924: contig of 910 bp in length

\* 55925 56024: gap of 100 bp

\* 56025 56909: contig of 885 bp in length

\* 56910 57009: gap of 100 bp

\* 57010 57902: contig of 893 bp in length

\* 57903 58002: gap of 100 bp





AUTHORS  
TITLE  
JOURNAL  
COMMENT

DOE Joint Genome Institute.  
Direct Submission  
Submitted (03-AUG-1999) Production Sequencing Facility, DOE Joint  
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA  
On Jun 21, 2000 this sequence version replaced gi:7689944.  
-----Genome Center  
Center: Joint Genome Institute  
Center Code: JGI  
Web site: <http://www.jgi.doe.gov>  
-----

Project Information  
Center Project Name: 595469  
Center clone name: RPCI-11\_492H8  
-----

Summary Statistics

Consensus quality: 156671 bases at least Q40  
Consensus quality: 183548 bases at least Q30  
Consensus quality: 188961 bases at least Q20  
Estimated insert size: 189500; agarose-fp estimation  
Estimated insert size: 199144; sum-of-contigs estimation  
Quality coverage: 3.4 in Q20 bases; agarose-fp estimation  
Quality coverage: 3.23 in Q20 bases; sum-of-contigs estimation.  
\* NOTE: This is a 'working draft' sequence. It currently  
\* consists of 60 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence  
\* as soon as it is available and the accession number will  
\* be preserved.

1 1059: contig of 1059 bp in length  
\* 1060 1159: gap of unknown length  
\* 1160 2165: contig of 1006 bp in length  
\* 2166 2265: gap of unknown length  
\* 2266 3328: contig of 1063 bp in length  
\* 3329 3429: gap of unknown length  
\* 3430 4435: contig of 1007 bp in length  
\* 4436 4535: gap of unknown length  
\* 4536 5539: contig of 1004 bp in length  
\* 5540 5640: gap of unknown length  
\* 5641 6729: contig of 1090 bp in length  
\* 6730 6829: gap of unknown length  
\* 6830 8057: contig of 1228 bp in length  
\* 8058 8157: gap of unknown length  
\* 8158 9286: contig of 1129 bp in length  
\* 9287 9387: gap of unknown length  
\* 9388 10701: contig of 1314 bp in length  
\* 10702 10800: gap of unknown length  
\* 10801 11829: contig of 1029 bp in length  
\* 11830 11929: gap of unknown length  
\* 11930 13278: contig of 1350 bp in length  
\* 13280 13379: gap of unknown length  
\* 13380 14619: contig of 1240 bp in length  
\* 14620 14720: gap of unknown length  
\* 14721 15934: contig of 1215 bp in length  
\* 15935 16034: gap of unknown length  
\* 16035 17350: contig of 1316 bp in length  
\* 17351 17450: gap of unknown length  
\* 17451 19063: contig of 1613 bp in length  
\* 19064 19163: gap of unknown length  
\* 19164 20431: contig of 1268 bp in length  
\* 20432 20531: gap of unknown length  
\* 20532 21622: contig of 1091 bp in length  
\* 21623 21722: gap of unknown length  
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\* 23189 23288: gap of unknown length  
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\* 24523 24622: gap of unknown length  
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\* 25922 26021: gap of unknown length  
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30864 32893: contig of 2030 bp in length  
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54856 57563: contig of 2708 bp in length  
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68421 68520: gap of unknown length  
68521 71229: contig of 2709 bp in length  
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71330 73628: contig of 2299 bp in length  
73629 73728: gap of unknown length  
73729 77868: contig of 4140 bp in length  
77869 77968: gap of unknown length  
77969 81036: contig of 3068 bp in length  
81037 81136: gap of unknown length  
81137 83328: contig of 2192 bp in length  
83329 83428: gap of unknown length  
83429 86409: contig of 2981 bp in length  
86410 90134: gap of unknown length  
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90235 93916: contig of 3682 bp in length  
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94017 97718: contig of 3702 bp in length  
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97819 100965: contig of 3147 bp in length  
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110177 114320: contig of 4144 bp in length  
114321 114420: gap of unknown length  
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121094 127991: contig of 6898 bp in length  
127992 128091: gap of unknown length  
128092 136414: contig of 8323 bp in length  
136415 136514: gap of unknown length  
136515 150305: contig of 13791 bp in length  
150306 150406 150405: gap of unknown length  
150406 163992: contig of 13587 bp in length  
163993 164092: gap of unknown length

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* 186976 187075: gap of unknown length
* 187076 205044: contig of 17969 bp in length.
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/clone_lib="RPCI human BAC library 11"
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BASE COUNT
ORIGIN

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Best Local Similarity 100.0%; Pred. No. 1.6e-51;
Matches 109; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 798 GAGGTCCCGAGGATCTGTGCGATGAGTCCGAGACCAAGACCGAGTCTCAACATCAGC 857
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Db 43774 GAGGTCCCGAGGATCTGTGCGATGAGTCCGAGACCAAGACCGAGTCTCAACATCAGC 43833
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QY 858 ACCTGCCACTGCCACTGTCCCTCGGTACACGGCGAGATAGTCCCAAG 906
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Db 43834 ACCTGCCACTGCCACTGTCCCTCGGTACACGGCGAGATAGTCCCAAG 43882
|||||

RESULT 20
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LOCUS Homo sapiens cDNA FLJ3732 fis, clone KIDNE2010750.
DEFINITION AK096051
ACCESSION AK096051
VERSION AK096051.1 GI:21755444
KEYWORDS oligo capping; fis (full insert sequence);
SOURCE Homo sapiens kidney cDNA to mRNA, clone_lib.KIDNE2
clone:KIDNE2010750.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Oshima,A., Takahashi-Fujii,A., Tanase,T., Imose,N., Takeuchi,K.,
Arita,M., Mutsaers,K., Yuuki,H., Hara,H., Sugiyama,T., Irie,R.,
Otsuki,T., Sato,H., Wakamatsu,A., Ishii,S., Yamamoto,J., Isono,Y.,
Kawai-Hio,Y., Saito,K., Nishikawa,T., Kimura,K., Yanashita,H.,
Matsuo,K., Nakamura,Y., Sekine,M., Kikuchi,H., Kanda,K.,
Wagatsuma,M., Murakawa,K., Kanehori,K., Sugiyama,A., Kawakami,B.,
Suzuki,Y., Sugano,S., Nagahara,K., Masuho,Y., Nagai,K. and
Isogai,T.
NEDO human cDNA sequencing project
Unpublished
2 (bases 1 to 2340)
Isogai,T. and Yamamoto,J.
Direct Submission
Submitted (04-JUL-2002) Takao Isogai, FLJ Project(HRI Team); 2-6-7
Kazusa-Kamatari, Kisarazu, Chiba 292-0812, Japan
(E-mail:genomics@hri.co.jp, Tel:81-438-52-3975, Fax:81-438-52-3986)
NEDO human cDNA sequencing project supported by Ministry of
Economy, Trade and Industry of Japan; CDNA full insert sequencing:
Research Association for Biotechnology (RAB); CDNA library
construction: Helix Research Institute (HRI) (supported by Japan
Key Technology Center etc.); 5'- & 3'-end one pass sequencing: RAB,
HRI, and Biotechnology Center, National Institute of Technology and
Evaluation; clone selection for full insert sequencing: HRI and
RAB; annotation: HRI and RAB.
Location/Qualifiers
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/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="KIDNE2010750"
/tissue_type="kidney"
/clone_lib="KIDNE2"
/note="cloning vector: pME18SFL3"
180..641
/note="unnamed protein product"

CDs

FEATURES
source
TITLE NEDO human cDNA sequencing project
REFERENCE 1
AUTHORS Isogai,T. and Yamamoto,J.
JOURNAL Direct Submission
COMMENT NEDO human cDNA sequencing project supported by Ministry of
Economy, Trade and Industry of Japan; CDNA full insert sequencing:
Research Association for Biotechnology (RAB); CDNA library
construction: Helix Research Institute (HRI) (supported by Japan
Key Technology Center etc.); 5'- & 3'-end one pass sequencing: RAB,
HRI, and Biotechnology Center, National Institute of Technology and
Evaluation; clone selection for full insert sequencing: HRI and
RAB; annotation: HRI and RAB.
Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WIBR
Web site: http://www.seq.wi.mit.edu
Contact: sequence.submissions@genome.wi.mit.edu
Project Information
Center project name: L5885
Center clone name: 396_D_24
* NOTE: This record contains 79 individual
* sequencing reads that have not been assembled into
```

\* contigs. Runs of N are used to separate the reads  
\* and the order in which they appear is completely  
\* arbitrary. Low-pass sequence sampling is useful for  
\* identifying clones that may be gene-rich and allows  
\* overlap relationships among clones to be deduced.  
\* However, it should not be assumed that this clone  
\* will be sequenced to completion. In the event that  
\* the record is updated, the accession number will  
\* be preserved.

\* 1 909: contig of 909 bp in length  
\* 910 1009: gap of 100 bp  
\* 1010 1922: contig of 913 bp in length  
\* 1923 2022: gap of 100 bp  
\* 2023 2941: contig of 919 bp in length  
\* 2942 3041: gap of 100 bp  
\* 3042 3960: contig of 919 bp in length  
\* 3961 4060: gap of 100 bp  
\* 4061 4972: contig of 912 bp in length  
\* 4973 5072: gap of 100 bp  
\* 5073 5966: contig of 894 bp in length  
\* 5967 6066: gap of 100 bp  
\* 6067 6967: contig of 901 bp in length  
\* 6968 7067: gap of 100 bp  
\* 7068 7984: contig of 897 bp in length  
\* 7965 8064: gap of 100 bp  
\* 8065 8948: contig of 884 bp in length  
\* 8949 9048: gap of 100 bp  
\* 9049 9945: contig of 897 bp in length  
\* 9946 10045: gap of 100 bp  
\* 10046 10941: contig of 896 bp in length  
\* 10942 11041: gap of 100 bp  
\* 11042 11974: contig of 933 bp in length  
\* 11975 12074: gap of 100 bp  
\* 12075 12953: contig of 879 bp in length  
\* 12954 13053: gap of 100 bp  
\* 13054 13940: contig of 887 bp in length  
\* 13941 14040: gap of 100 bp  
\* 14041 14924: contig of 884 bp in length  
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\* 15025 15910: contig of 886 bp in length  
\* 15911 16010: gap of 100 bp  
\* 16011 16901: contig of 891 bp in length  
\* 16902 17001: gap of 100 bp  
\* 17002 17897: contig of 896 bp in length  
\* 17898 17997: gap of 100 bp  
\* 17998 18892: contig of 895 bp in length  
\* 18893 18992: gap of 100 bp  
\* 18993 19883: contig of 891 bp in length  
\* 19884 19983: gap of 100 bp  
\* 19984 20885: contig of 902 bp in length  
\* 20886 20985: gap of 100 bp  
\* 20986 21899: contig of 914 bp in length  
\* 21900 21999: gap of 100 bp  
\* 22000 22919: contig of 920 bp in length  
\* 22920 23019: gap of 100 bp  
\* 23020 23928: contig of 909 bp in length  
\* 23929 24028: gap of 100 bp  
\* 24029 24922: contig of 894 bp in length  
\* 24923 25022: gap of 100 bp  
\* 25023 25916: contig of 894 bp in length  
\* 25917 26016: gap of 100 bp  
\* 26017 26914: contig of 898 bp in length  
\* 26915 27014: gap of 100 bp  
\* 27015 27910: contig of 896 bp in length  
\* 27911 28010: gap of 100 bp  
\* 28011 28929: contig of 919 bp in length  
\* 28930 29029: gap of 100 bp  
\* 29030 29902: contig of 873 bp in length  
\* 29903 30002: gap of 100 bp  
\* 30003 30896: contig of 894 bp in length  
\* 30897 30996: contig of 885 bp in length  
\* 31882 31981: gap of 100 bp

\* 31982 32866: contig of 885 bp in length  
\* 32867 32966: gap of 100 bp  
\* 32967 33869: contig of 903 bp in length  
\* 33870 33969: gap of 100 bp  
\* 33970 34888: contig of 919 bp in length  
\* 34889 34988: gap of 100 bp  
\* 34989 35880: contig of 892 bp in length  
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\* 35981 36880: contig of 900 bp in length  
\* 36881 36980: gap of 100 bp  
\* 36981 37874: contig of 894 bp in length  
\* 37875 37974: gap of 100 bp  
\* 37975 38862: contig of 888 bp in length  
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\* 38963 39874: contig of 912 bp in length  
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\* 40900 40999: gap of 100 bp  
\* 41000 41911: contig of 912 bp in length  
\* 41912 42011: gap of 100 bp  
\* 42012 42921: contig of 910 bp in length  
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\* 47029 47925: contig of 897 bp in length  
\* 47926 48025: gap of 100 bp  
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\* 48923 49022: gap of 100 bp  
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\* 51009 51918: contig of 910 bp in length  
\* 51919 52018: gap of 100 bp  
\* 52019 52934: contig of 916 bp in length  
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\* 57010 57902: contig of 893 bp in length  
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\* 58003 58884: contig of 882 bp in length  
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\* 58985 59895: contig of 911 bp in length  
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\* 59996 60882: contig of 887 bp in length  
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\* 60983 61906: contig of 924 bp in length  
\* 61907 62006: gap of 100 bp  
\* 62007 62901: contig of 895 bp in length  
\* 62902 63001: gap of 100 bp  
\* 63002 63892: contig of 891 bp in length  
\* 63893 63992: gap of 100 bp  
\* 63993 64887: contig of 895 bp in length  
\* 64888 64987: gap of 100 bp  
\* 64988 65885: contig of 898 bp in length  
\* 65886 65985: gap of 100 bp  
\* 65986 66885: contig of 900 bp in length  
\* 66886 66985: gap of 100 bp  
\* 66986 67867: contig of 882 bp in length  
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\* 67968 68877: contig of 910 bp in length

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* 68878 68977: gap of 100 bp
* 68978 69871: contig of 894 bp in length
* 69872 69971: gap of 100 bp
* 69972 70884: contig of 913 bp in length
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Query Match      4.2%; Score 79; DB 2; Length 79023;
Best Local Similarity 100.0%; Pred. No. 6.6e-34;
Matches 79; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 421 TGTGGCGCACCTGCAGTGGGTGGACATGCAGCTGCTCCCGCGGCTTGGCGTCT 480
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Db 53193 TGTGGCGCACCTGCAGTGGGTGGACATGCAGCTGCTCCCGCGGCTTGGCGTCT 53134
      |||||||
QY 481 TTGTTCAAGTGTGAGCT 499
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Db 53133 TTGTTCAAGTGTGAGCT 53115

RESULT 22
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DEFINITION
AC093451
VERSION
KEYWORDS
SOURCE
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
1 (bases 1 to 200755)
Prescott, A. and Roe, B.A.
Mus musculus BAC Clone rp23-340n2
Unpublished
2 (bases 1 to 200755)
Prescott, A. and Roe, B.A.
Direct Submission
Submitted (24-AUG-2001) Department of Chemistry And Biochemistry,
The University of Oklahoma, 620 Parrington Oval, Room 208, Norman,
OK 73019, USA
3 (bases 1 to 200755)
Prescott, A. and Roe, B.A.
Direct Submission
Submitted (20-AUG-2002) Department of Chemistry And Biochemistry,
The University of Oklahoma, 620 Parrington Oval, Room 208, Norman,
OK 73019, USA
On Aug 20, 2002 this sequence version replaced gi:22213237.
----- Genome Center
Center: Department of Chemistry And Biochemistry
The University of Oklahoma
Center code:UOKNOR
-----
* NOTE: This is a 'working draft' sequence. It currently
* consists of 4 contigs. Gaps between the contigs
* are represented as runs of N. The order of the pieces
* is believed to be correct as given, however the sizes
* of the gaps between them are based on estimates that have
* provided by the submitter.
* This sequence will be replaced
* by the finished sequence as soon as it is available and
* the accession number will be preserved.
* 1 33810: contig of 33810 bp in length
* 33811 70420: contig of unknown length
* 33911 70420: contig of 36510 bp in length
* 70421 70520: gap of unknown length
* 70521 132973: contig of 62453 bp in length
* 132974 133074: gap of unknown length
* 133074 200755: contig of 67682 bp in length.
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      /strain="C57BL/6J"
FEATURES
Source

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/clone_lib="RPCI - 23 Female (C57BL/6J) Mouse BAC Library"
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ORIGIN

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Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 23
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AC098076
VERSION
KEYWORDS
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
1 (bases 1 to 197326)
Muzny, D.M., Adams, C., Adio-Oduola, B., Ali-osman, F.R., Allen, C.,
Alsbrooks, S.L., Amaratunge, H.C., Are, J.R., Ayele, M., Banks, T.,
Barbata, J., Benton, J., Bimaga, K., Blankenburg, K., Bonnin, D.,
Bouck, J., Bowie, S., Brieva, M., Brown, E., Brown, M., Bryant, N.P.,
Buhay, C., Burch, P., Burkett, C., Burrell, K.L., Byrd, N.C.,
Carron, T.F., Carter, M., Cavazos, S.R., Chacko, J., Chavez, D.,
Chen, G., Chen, R., Chen, Z., Chowdhry, I., Christopoulos, C.,
Cleveland, C.D., Cox, C., Coyle, M.D., Dathorne, S.R., David, R.,
Davila, M.L., Davis, C., Davy-Carroll, L., Dederich, D.A.,
Delaney, K.R., Delgado, O., Denn, A.L., Ding, Y., Dinh, H.H.,
Douthwaite, K.J., Draper, H., Dugan-Rocha, S., Durbin, K.J.,
Earnhart, C., Edgar, D., Edwards, C.C., Elhaj, C., Escotto, M.,
Falls, T., Ferraguto, D., Flagg, N., Ford, J., Foster, P., Frantz, P.,
Gabisi, A., Gao, J., Garcia, A., Garner, T., Garza, N., Gill, R.,
Gorrell, J.H., Guevara, W., Gunaratne, P., Hale, S., Hamilton, K.,
Harris, C., Harris, K., Hart, M., Haylak, P., Hawes, A., Hernandez, J.,
Hernandez, O., Hodgson, A., Hogue, M., Holloway, C., Hollins, B.,
Homs, F., Howard, S., Huber, J., Hulyk, S., Hume, J., Jackson, L.E.,
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Lozano, R.J., Lu, X., Lucier, A., Lucier, R., Luna, R., Ma, J.,
Maheshwari, M., Mapua, P., Martin, R., Martindale, A., Martinez, E.,
Massey, E., Mathew, E., McLeod, M.P., Meador, M., Mei, G., Metzger, M.,
Miner, G., Miner, Z., Mitchell, T., Mohabbat, K., Morgan, M., Morris, S.,
Moser, M., Neal, D., Newton, J., Newton, N., Nguyen, A., Nguyen, N.,
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Wang, S., Ward-Moore, S., Warren, R., Washington, C., Wallington, S.,
Williams, G., Williamson, A., Wleczka, R., Woodson, S., Worley, K.,
Wu, C., Wu, Y.F., Zhou, J., Zorrilla, S., Nelson, D.,
Weinstock, G. and Gibbs, R.
Direct Submission
Unpublished
2 (bases 1 to 197326)
TITLE
JOURNAL
REFERENCE

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AUTHORS  
JOURNAL

Worley, K.C.  
Direct Submission  
Submitted (23-OCT-2001) Human Genome Sequencing Center, Department  
of Molecular and Human Genetics, Baylor College of Medicine, One  
Baylor Plaza, Houston, TX 77030, USA  
3 (bases 1 to 197326)

REFERENCE  
AUTHORS  
JOURNAL

Worley, K.C.  
Direct Submission  
Submitted (12-JUL-2002) Human Genome Sequencing Center, Department  
of Molecular and Human Genetics, Baylor College of Medicine, One  
Baylor Plaza, Houston, TX 77030, USA  
On Jul 11, 2002 this sequence version replaced gi:17967675.

## COMMENT

----- Genome Center  
Center: Baylor College of Medicine  
Center code: BCM  
Web site: <http://www.hgsc.bcm.tmc.edu/>  
Contact: hgsc-help@bcm.tmc.edu  
----- Project Information  
Center project name: GGRK  
Center clone name: CH230-122N13  
----- Summary Statistics  
Sequencing vector: Plasmid;  
Chemistry: Dye-terminator Big Dye; 100% of reads  
Assembly program: Phrap; version 0.990329  
Consensus quality: 131850 bases at least Q40  
Consensus quality: 140067 bases at least Q30  
Consensus quality: 146790 bases at least Q20  
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\* NOTE: Estimated insert size may differ from sequence length  
(see [http://www.hgsc.bcm.tmc.edu/docs/Genbank\\_draft\\_data.html](http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html)).  
\* NOTE: This is a 'working draft' sequence. It currently  
\* consists of 70 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence  
\* as soon as it is available and the accession number will  
\* be preserved.

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Mon Dec 30 09:16:06 2002

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VERSION  
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Nierman, W.C., Feldblyum, T.V., Laub, M.T., Paulsen, I.T., Nelson, K.E., Eisen, J.J., Heidelberg, J.F., Alley, M.R., Ohta, N., Maddock, J.R., Potocka, I., Nelson, W.C., Newton, A., Stephens, C., Phadke, N.D., Ely, B., DeBoy, R.T., Dodson, R.J., Durkin, A.S., Gwinn, M.L., Haft, D.H., Kolonay, J.F., Smit, J., Craven, M.B., Khouri, H., Shetty, J., Berry, K., Utterback, T., Tran, K., Wolf, A., Vamathevan, J., Ermolaeva, M., White, O., Salzberg, S.L., Venter, J.C., Shapiro, L. and Fraser, C.M.  
Complete genome sequence of Caulobacter crescentus  
Proc. Natl. Acad. Sci. U.S.A. 98 (7), 4136-4141 (2001)  
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2 (bases 1 to 12977)  
Nierman, W.C., Feldblyum, T.V., Paulsen, I.T., Nelson, K.E., Eisen, J.J., Heidelberg, J.F., Alley, M.R., Ohta, N., Maddock, J.R., Potocka, I., Nelson, W.C., Newton, A., Stephens, C., Phadke, N.D., Ely, B., Laub, M.T., DeBoy, R.T., Dodson, R.J., Durkin, A.S., Gwinn, M.L., Haft, D.H., Kolonay, J.F., Smit, J., Craven, M., Khouri, H., Shetty, J., Berry, K., Utterback, T., Tran, K., Wolf, A., Vamathevan, J., Ermolaeva, M., White, O., Salzberg, S.L., Shapiro, L., Venter, J.C. and Fraser, C.M.  
Direct Submission  
Submitted (31-JAN-2001) The Institute for Genomic Research, 9712  
Medical Center Dr, Rockville, MD 20850, USA  
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Fragment Name Begin End

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 HSS171M\_2 200001 310000  
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 Continuation (2 of 4) of HSS171M from base 100001 (AJ239326 Homo sapiens chromosome 21)

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Db 30521 GGGCTGTGGCGGCACCTGTGC 30542

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 DEFINITION 7 unordered pieces.

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 KEYWORDS Homo sapiens  
 SOURCE Homo sapiens

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 1 (bases 1 to 134151)

REFERENCE Muzny D.M., Adams C., Adio-Oduola B., Ali-osman F.R., Allen C.,

Alsbrooks S.L., Amarantunge H.C., Are J.R., Ayele M., Banks T.,

Barbacia J., Benton J., Blinage K., Blankenburg K., Bonnin D.,

Bouck J., Bowie S., Brileva M., Brown E., Brown M., Bryant N.P.,

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Carron T.F., Carter M., Cavazos S.R., Chacko J., Chavez D.,

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Delaney K.R., Delgado O., Denn A.L., Ding Y., Dinh H.H.,

Deunhaite K.J., Draper H., Dugan-Rocha S., Durbin K.J.,

Earnhart C., Edgar D., Edwards C.C., Elhaj C., Escotto M.,

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Gabriel A., Gao J., Garcia A., Garner T., Garza N., Gill R.,

Goirell J.H., Guevara W., Gunaratne P., Hale S., Hamilton K.,

Harris C., Harris K., Hart M., Havlak P., Haves A., Hernandez J.,

Hernandez O., Hodgson A., Hogues M., Holloway C., Hollins B.,

Homs F., Howard S., Huber J., Hulyk S., Hume J., Jackson L.E.,

Jacobson B., Jia Y., Johnson R., Jolivet S., Joudah S.,

Karlsson E., Kelly S., Khan U., King L., Korvah J., Kovar C.,

Kratovic J., Kureshi A., Landry N., Leal B., Lewis L.C., Lewis L.,

Li J., Li Z., Lichtarge O., Lieu C., Liu J., Liu W., Loulseged H.,

Lozado R.J., Lu X., Lucier A., Lucier R., Luna R., Ma J.,

Mareshwari M., Mapua P., Martin R., Martindale A., Martinez E.,

Massey E., Mahoney E., McLeod M.P., Meador M., Mei G., Metzker M.,

Moser M., Neal Z., Newton J., Newton N., Nguyen A., Nguyen N.,

Nguyen N., Nickerson E., Nwokwenkwo S., Ogih M., Okunolu G.,

Oragunye N., Oviedo R., Pace A., Payton B., Peery J., Perez L.,

Peters L., Pickens R., Pichas E., Pu L.L., Quiles M., Ren Y.,

Rives M., Rojas A., Rojubokan I., Rolfe M., Ruiz S., Savery G.,

Scherer S., Scott G., Shen H., Shoostari N., Sisson I.,

Sodergren E., Sonake T., Sparks A., Stanley H., Stone K.,

Sutton A., Svatek A., Tabor P., Tamerisa K., Tamerisa K., Tang H.,

Tansey J., Taylor C., Taylor T., Telford B., Thomas N., Thomas S.,

Umani K., Vasquez L., Vera V., Villalon D., Vinson R., Wang Q.,

Wang S., Ward-Moore S., Warren R., Washington C., Watlington S.,

Williams G., Williamson A., Wleczyk R., Wooden S., Worley K.,

Wu C., Wu X., Wu Y.F., Zhou J., Zorrilla S., Nelson D.,

Weinstock G. and Gibbs R.

Direct Submission  
 Unpublished  
 2 (bases 1 to 134151)  
 Worley K.C.  
 Direct Submission

TITLE  
 JOURNAL  
 REFERENCE  
 AUTHORS  
 TITLE

Submitted (27-AUG-2000) Human Genome Sequencing Center, Department  
 of Molecular and Human Genetics, Baylor College of Medicine, One  
 Baylor Plaza, Houston, TX 77030, USA  
 3 (bases 1 to 134151)  
 Worley K.C.  
 Direct Submission  
 Submitted (09-MAY-2002) Human Genome Sequencing Center, Department  
 of Molecular and Human Genetics, Baylor College of Medicine, One  
 Baylor Plaza, Houston, TX 77030, USA  
 On Apr 28, 2002 this sequence version replaced gi:10047601.  
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 Genome Center  
 Center: Baylor College of Medicine  
 Center code: BCM  
 Web site: http://www.hgsc.bcm.tmc.edu/  
 Contact: hgsc-help@bcm.tmc.edu  
 -----  
 Project Information  
 Center project name: HGCN  
 Center clone name: RP11-62D5  
 -----  
 Summary Statistics  
 Sequencing vector: M13;  
 Chemistry: Dye-terminator Big Dye; 91% of reads  
 Chemistry: Dye-terminator Big Dye; 9% of reads  
 Assembly program: Phrap; version 0.990329  
 Consensus quality: 129214 bases at least Q40  
 Consensus quality: 132434 bases at least Q30  
 Consensus quality: 133922 bases at least Q20  
 Estimated insert size: 134530; sum-of-contigs estimation  
 Quality coverage: 5x in Q20 bases; sum-of-contigs estimation  
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 \* NOTE: Estimated insert size may differ from sequence length  
 (see http://www.hgsc.bcm.tmc.edu/docs/genbank\_draft\_data.html).  
 \* NOTE: This is a 'working draft' sequence. It currently  
 consists of 7 contigs. The true order of the pieces  
 is not known and their order in this sequence record is  
 arbitrary. Gaps between the contigs are represented as  
 runs of N, but the exact sizes of the gaps are unknown.  
 \* This record will be updated with the finished sequence  
 as soon as it is available and the accession number will  
 be preserved.  
 \* 3823: contig of 3823 bp in length  
 \* 3923: gap of unknown length  
 \* 3924: contig of 4841 bp in length  
 \* 8765: gap of unknown length  
 \* 8865: contig of 11329 bp in length  
 \* 20193: contig of 11329 bp in length  
 \* 20294: gap of unknown length  
 \* 41239: contig of 20946 bp in length  
 \* 41240: gap of unknown length  
 \* 41340: contig of 18531 bp in length  
 \* 59870: gap of unknown length  
 \* 59871: contig of 28844 bp in length  
 \* 88915: gap of unknown length  
 \* 88915: contig of 45237 bp in length.  
 \* 88915: Location/Qualifiers  
 1. 134151  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /chromosome="12"  
 /clone="RP11-62D5"  
 BASE COUNT 43267 a 24745 c 23175 g 42360 t 604 others  
 ORIGIN  
 Query Match 1.2%; Score 22; DB 2; Length 134151;  
 Best Local Similarity 100.0%; Pred. No. 2;  
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1779 CACTTCCACCTGGCCGACGCC 1800  
 Db 55400 CACTTCCACCTGGCCGACGCC 55421  
 RESULT 28  
 AC125935  
 LOCUS AC125935 165645 bp DNA linear HTG 18-JUL-2002



```

* 43912 44011: gap of unknown length
* 44012 44550: contig of 1439 bp in length
* 45451 45550: gap of unknown length
* 45551 46963: contig of 1413 bp in length
* 46964 47064: gap of unknown length
* 47064 48971: contig of 1908 bp in length
* 48972 49071: gap of unknown length
* 51157 51156: contig of 2085 bp in length
* 51157 53181: contig of unknown length
* 53181 53281: contig of 1925 bp in length
* 53282 55338: gap of unknown length
* 55339 55438: gap of unknown length
* 55439 56812: contig of 1374 bp in length
* 56813 56913: gap of unknown length
* 56913 58505: contig of 1593 bp in length
* 58506 59762: contig of 1157 bp in length
* 59763 59862: gap of unknown length
* 59863 61280: contig of 1418 bp in length
* 61281 61380: gap of unknown length
* 61381 63491: contig of 2111 bp in length
* 63492 63591: gap of unknown length
* 63592 65845: contig of 2254 bp in length
* 65846 65945: gap of unknown length
* 65946 67484: contig of 1539 bp in length
* 67485 67584: gap of unknown length
* 67585 70016: contig of 2432 bp in length
* 70017 70116: gap of unknown length
* 70117 72211: contig of 2095 bp in length
* 72212 72311: gap of unknown length
* 72312 74548: contig of 2237 bp in length
* 74549 74649: gap of unknown length
* 74649 78292: contig of 3643 bp in length
* 78293 78392: gap of unknown length
* 78393 81897: contig of 3506 bp in length
* 81898 84929: gap of unknown length
* 84930 85029: gap of unknown length
* 85030 88346: contig of 3317 bp in length
* 88347 90378: contig of 1932 bp in length
* 90379 90478: gap of unknown length
* 90479 93152: contig of 2674 bp in length
* 93153 93252: gap of unknown length
* 93253 96475: gap of unknown length
* 96476 96574: contig of 3222 bp in length
* 96575 99677: contig of 3103 bp in length
* 99678 102930: contig of 3153 bp in length
* 102931 103030: gap of unknown length
* 103031 106592: contig of 3562 bp in length
* 106593 106692: gap of unknown length

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Query Match      1.28; Score 22; DB 2; Length 165645;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1444 GCCAGTTTCCCGAGGACACAT 1465
      |||||
Db 56196 GCCAGTTTCCCGAGGACACAT 56217

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RESULT 29
AL805954/c
LOCUS      178413 bp      DNA      linear      HTG 29-JUN-2002
DEFINITION Mus musculus chromosome 4 clone RP23-277N22, *** SEQUENCING IN
PROGRESS ***, 11 unordered pieces.
ACCESSION AL805954
VERSION   AL805954.2 GI:21615787
KEYWORDS  HTG: HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
SOURCE    house mouse.
ORGANISM  Mus musculus

```

```

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
1 (bases 1 to 178413)
Plumb,B.
Direct Submission
Submitted (28-JUN-2002) Wellcome Trust Sanger Institute, Hinxton,
Cambridgeshire, CB10 1SA, UK. E-mail enquiries:
humquery@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk
On Jun 26, 2002 this sequence version replaced gi:21614845.
----- Genome Center
Center: Wellcome Trust Sanger Institute
Center code: SC
Web site: http://www.sanger.ac.uk
Contact: humquery@sanger.ac.uk
----- Project Information
Center project name: BM277N22
----- Summary Statistics
Assembly program: XGAP4; version 4.5
Chemistry: Dye-terminator; 100% of reads
Consensus quality: 175430 bases at least Q40
Consensus quality: 176248 bases at least Q30
Consensus quality: 176809 bases at least Q20
Insert size: 177413; sum-of-contigs
Insert size: 190090; 0.7% error; agarose-fp
Quality coverage: 6.21x in Q20 bases; sum-of-contigs Quality
coverage: 5.87x in Q20 bases; agarose-fp
-----

```

```

* NOTE: This is a 'working draft' sequence. It currently
* consists of 11 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

```

```

1 9954: contig of 9954 bp in length
9955 10054: gap of 100 bp
10055 14020: contig of 3966 bp in length
14021 14120: gap of 100 bp
14121 25780: contig of 11660 bp in length
25781 25880: gap of 100 bp
25881 48226: contig of 22346 bp in length
48227 48326: gap of 100 bp
48327 65871: contig of 17545 bp in length
65872 65971: gap of 100 bp
65972 74331: contig of 8360 bp in length
74332 74431: gap of 100 bp
74432 84536: contig of 10105 bp in length
84537 84636: gap of 100 bp
84637 94786: contig of 10150 bp in length
94787 94886: gap of 100 bp
94887 100170: contig of 5284 bp in length
100171 100270: gap of 100 bp
100271 104837: contig of 4567 bp in length
104838 104937: gap of 100 bp
104938 178413: contig of 73476 bp in length.

```

```

Location/Qualifiers
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/organism="Mus musculus"
/db_xref="taxon:10090"
/chromosome="4"
/clone="RP23-277N22"
/clone_lib="RPCI-23"
1..9954

```

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/note="assembly_fragment:01797
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clone_end:SP6
vector_side:left"
10055..14020
/note="assembly_fragment:01740
fragment_chain:1"
14121..25780
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```

misc_feature

```

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misc_feature

```

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misc_feature

```

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| ORIGIN       | Query Match<br>Best Local Similarity 1.2%; Score 22; DB 2; Length 178413;<br>Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  |   |            |
| QY           | 1635 GGCAGAGAGAGCGGAGGAGGCC 1656<br>  |   |            |
| Db           | 75682 GGCAGAGAGAGCGGAGGAGGCC 75661  |   |            |
| RESULT 30    |   |   |            |
| AC079905     | 189456 bp DNA linear PRI 25-MAY-2002  |   |            |
| LOCUS        | Homo sapiens 12 BAC RP11-813p10 (Roswell Park Cancer Institute Human BAC Library) complete sequence.  |   |            |
| DEFINITION   | AC079905  |   |            |
| ACCESSION    | AC079905  |   |            |
| VERSION      | AC079905.28 GI:14277185   |   |            |
| KEYWORDS     | HTG.  |   |            |
| SOURCE       | Homo sapiens.   |   |            |
| ORGANISM     | Homo sapiens  |   |            |
| REFERENCE    | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  |   |            |
| AUTHORS      | 1 (bases 1 to 189456)<br>Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-Osman,F.R., Allen,C., Alsbrooks,S.L., Amarantunge,H.C., Are,J.R., Banks,T., Barbara,J., Benton,J., Bimage,M., Blankenburg,K., Bonnin,D., Bouck,J., Bowie,S., Brieva,M., Brown,E., Brown,M., Bryant,N.P., Buhay,C., Burch,P., Burkett,C., Burrell,K.L., Byrd,N.C., Carron,T.F., Chen,Z., Chen,Z., Chiu,D., Chowdhury,I., Christopoulos,C., Cleveland,C.D., Cox,C., Coyle,M.D., Dathorne,S.R., David,R., Davila,M.L., Davis,C., Davy-Carroll,L., Dederich,D.A., Delaney,K.R., Delgado,O., Denn,A.L., Ding,Y., Dinh,H.A., Douthwaite,K.J., Draper,H., Dugan-Rocha,S., Durbin,K.J., Earnhart,C., Edgar,D., Edwards,C.C., Elhaj,C., Emerling,S., Escotto,M., Falls,T., Ferraguto,D., Flagg,N., Ford,J., Foster,P., Frantz,P., Gabisi,A., Gao,J., Garcia,A., Garner,T., Garza,N., Gill,R., Gorrell,J.H., Guevara,W., Gunaratne,P., Hale,S., Hamilton,K., Han,J., Harris,C., Harris,K., Hart,M., Havlak,P., Haves,A., Hernandez,J., Hernandez,O., Hodgson,A., Hogues,M., Holloway,C., Hollins,B., Homsj,F., Howard,S., Huber,J., Hulyk,S., Hume,J., Ioshikhes,I., Jackson,L.E., Jacobson,B., Jia,Y., Johnson,R., Jolivet,S., Joudah,S., Karlsson,E., Kelly,S., Khan,U., King,L., Korvah,J., Kovar,C., Lewis,C., |   |            |
| TITLE        | 189456 bp DNA linear PRI 25-MAY-2002  |   |            |
| AUTHORS      | 1 (bases 1 to 189456)<br>Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-Osman,F.R., Allen,C., Alsbrooks,S.L., Amarantunge,H.C., Are,J.R., Banks,T., Barbara,J., Benton,J., Bimage,M., Blankenburg,K., Bonnin,D., Bouck,J., Bowie,S., Brieva,M., Brown,E., Brown,M., Bryant,N.P., Buhay,C., Burch,P., Burkett,C., Burrell,K.L., Byrd,N.C., Carron,T.F., Chen,Z., Chen,Z., Chiu,D., Chowdhury,I., Christopoulos,C., Cleveland,C.D., Cox,C., Coyle,M.D., Dathorne,S.R., David,R., Davila,M.L., Davis,C., Davy-Carroll,L., Dederich,D.A., Delaney,K.R., Delgado,O., Denn,A.L., Ding,Y., Dinh,H.A., Douthwaite,K.J., Draper,H., Dugan-Rocha,S., Durbin,K.J., Earnhart,C., Edgar,D., Edwards,C.C., Elhaj,C., Emerling,S., Escotto,M., Falls,T., Ferraguto,D., Flagg,N., Ford,J., Foster,P., Frantz,P., Gabisi,A., Gao,J., Garcia,A., Garner,T., Garza,N., Gill,R., Gorrell,J.H., Guevara,W., Gunaratne,P., Hale,S., Hamilton,K., Han,J., Harris,C., Harris,K., Hart,M., Havlak,P., Haves,A., Hernandez,J., Hernandez,O., Hodgson,A., Hogues,M., Holloway,C., Hollins,B., Homsj,F., Howard,S., Huber,J., Hulyk,S., Hume,J., Ioshikhes,I., Jackson,L.E., Jacobson,B., Jia,Y., Johnson,R., Jolivet,S., Joudah,S., Karlsson,E., Kelly,S., Khan,U., King,L., Korvah,J., Kovar,C., Lewis,C., |   |            |
| TITLE        | 189456 bp DNA linear PRI 25-MAY-2002  |   |            |
| AUTHORS      | 1 (bases 1 to 189456)<br>Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-Osman,F.R., Allen,C., Alsbrooks,S.L., Amarantunge,H.C., Are,J.R., Banks,T., Barbara,J., Benton,J., Bimage,M., Blankenburg,K., Bonnin,D., Bouck,J., Bowie,S., Brieva,M., Brown,E., Brown,M., Bryant,N.P., Buhay,C., Burch,P., Burkett,C., Burrell,K.L., Byrd,N.C., Carron,T.F., Chen,Z., Chen,Z., Chiu,D., Chowdhury,I., Christopoulos,C., Cleveland,C.D., Cox,C., Coyle,M.D., Dathorne,S.R., David,R., Davila,M.L., Davis,C., Davy-Carroll,L., Dederich,D.A., Delaney,K.R., Delgado,O., Denn,A.L., Ding,Y., Dinh,H.A., Douthwaite,K.J., Draper,H., Dugan-Rocha,S., Durbin,K.J., Earnhart,C., Edgar,D., Edwards,C.C., Elhaj,C., Emerling,S., Escotto,M., Falls,T., Ferraguto,D., Flagg,N., Ford,J., Foster,P., Frantz,P., Gabisi,A., Gao,J., Garcia,A., Garner,T., Garza,N., Gill,R., Gorrell,J.H., Guevara,W., Gunaratne,P., Hale,S., Hamilton,K., Han,J., Harris,C., Harris,K., Hart,M., Havlak,P., Haves,A., Hernandez,J., Hernandez,O., Hodgson,A., Hogues,M., Holloway,C., Hollins,B., Homsj,F., Howard,S., Huber,J., Hulyk,S., Hume,J., Ioshikhes,I., Jackson,L.E., Jacobson,B., Jia,Y., Johnson,R., Jolivet,S., Joudah,S., Karlsson,E., Kelly,S., Khan,U., King,L., Korvah,J., Kovar,C., Lewis,C., |   |            |
| TITLE        | 189456 bp DNA linear PRI 25-MAY-2002  |   |            |
| AUTHORS      | 1 (bases 1 to 189456)<br>Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-Osman,F.R., Allen,C., Alsbrooks,S.L., Amarantunge,H.C., Are,J.R., Banks,T., Barbara,J., Benton,J., Bimage,M., Blankenburg,K., Bonnin,D., Bouck,J., Bowie,S., Brieva,M., Brown,E., Brown,M., Bryant,N.P., Buhay,C., Burch,P., Burkett,C., Burrell,K.L., Byrd,N.C., Carron,T.F., Chen,Z., Chen,Z., Chiu,D., Chowdhury,I., Christopoulos,C., Cleveland,C.D., Cox,C., Coyle,M.D., Dathorne,S.R., David,R., Davila,M.L., Davis,C., Davy-Carroll,L., Dederich,D.A., Delaney,K.R., Delgado,O., Denn,A.L., Ding,Y., Dinh,H.A., Douthwaite,K.J., Draper,H., Dugan-Rocha,S., Durbin,K.J., Earnhart,C., Edgar,D., Edwards,C.C., Elhaj,C., Emerling,S., Escotto,M., Falls,T., Ferraguto,D., Flagg,N., Ford,J., Foster,P., Frantz,P., Gabisi,A., Gao,J., Garcia,A., Garner,T., Garza,N., Gill,R., Gorrell,J.H., Guevara,W., Gunaratne,P., Hale,S., Hamilton,K., Han,J., Harris,C., Harris,K., Hart,M., Havlak,P., Haves,A., Hernandez,J., Hernandez,O., Hodgson,A., Hogues,M., Holloway,C., Hollins,B., Homsj,F., Howard,S., Huber,J., Hulyk,S., Hume,J., Ioshikhes,I., Jackson,L.E., Jacobson,B., Jia,Y., Johnson,R., Jolivet,S., Joudah,S., Karlsson,E., Kelly,S., Khan,U., King,L., Korvah,J., Kovar,C., Lewis,C., |   |            |
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| TITLE        | 189456 bp DNA linear PRI 25-MAY-2002  |   |            |
| AUTHORS      | 1 (bases 1 to 189456)<br>Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-Osman,F.R., Allen,C., Alsbrooks,S.L., Amarantunge,H.C., Are,J.R., Banks,T., Barbara,J., Benton,J., Bimage,M., Blankenburg,K., Bonnin,D., Bouck,J., Bowie,S., Brieva,M., Brown,E., Brown,M., Bryant,N.P., Buhay,C., Burch,P., Burkett,C., Burrell,K.L., Byrd,N.C., Carron,T.F., Chen,Z., Chen,Z., Chiu,D., Chowdhury,I., Christopoulos,C., Cleveland,C.D., Cox,C., Coyle,M.D., Dathorne,S.R., David,R., Davila,M.L., Davis,C., Davy-Carroll,L., Dederich,D.A., Delaney,K.R., Delgado,O., Denn,A.L., Ding,Y., Dinh,H.A., Douthwaite,K.J., Draper,H., Dugan-Rocha,S., Durbin,K.J., Earnhart,C., Edgar,D., Edwards,C.C., Elhaj,C., Emerling,S., Escotto,M., Falls,T., Ferraguto,D., Flagg,N., Ford,J., Foster,P., Frantz,P., Gabisi,A., Gao,J., Garcia,A., Garner,T., Garza,N., Gill,R., Gorrell,J.H., Guevara,W., Gunaratne,P., Hale,S., Hamilton,K., Han,J., Harris,C., Harris,K., Hart,M., Havlak,P., H   |   |            |



Repeats are identified using RepeatMasker (A. Smit and P. Green, unpublished.) for Human and Mouse sequences.

Genes and Region of sequence similarity are identified by BLAST (Nuc. Acids Res. 25:3389-3402) similarity (expect < 1e-34) to the EST and cDNA sequences. Genes demonstrate at least two exons flanked by consensus splice sites that maintained sequence continuity across the splice junctions. Sequences that are not identical matches are annotated as similar.

SEQUENCING READ COVERAGE: Sequencing is completed to a minimum standard of double strand coverage with a minimum of 2 clones and 2 reads with no ambiguities or 2 chemistries with a minimum of 2 clones and 3 reads with no ambiguities. If the sequence quality for a region does not meet this standard, it will be indicated in the annotation as Low Coverage.

QUALITY OF INDIVIDUAL BASES: This sequence meets stringent quality standards - estimated error rate less than 1 per 10,000 bases. Reports of lowest quality individual bases and measures of base quality are listed below. Description of the metrics can be found at URL: <http://gc.bcm.tmc.edu:8088/quality.info/genbank.annotation.html>.

# QUALSTAT-REPORT-----

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----- Summary Statistics -----
Contig length: 197844
Phrap values in estimate: 197276
Average error rate (BCM-Phrap estimate): 1.32507e-05
Fraction of Phrap values less than 40 : 0.00304649
Number of consensus changing edits: 22
Number of N's in consensus : 0

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```

----- Consensus changing edits -----
Position Original+Context Edited+Context
396 gtatgaatt(n)actgggaaga gtatgaatt(t)actgggaaga
438 aatcacctta(n)tnnnntacc aatcacctta(a)tgctcagtaacc
460 tacctttant(n)ntntaccaca tacctttant(g)tcagtaaccaca
462 ctttntant(n)ntntaccaca ctttntant(g)tgctcagtaacc
463 ctttntntn(n)ntntaccaca ctttntntn(a)tgctcagtaacc
464 tttantntnn(n)taccacaaca tttantntn(g)taccacaaca
23959 tatgttaagt(n)atgataagat tatgttaagt(g)atgataagat
44170 gctgggatta(n)aaaacatat gctgggatta(g)aaaacatat
159989 aataaaactg(n)tgctcaca aataaaactg(g)tgctcaca
160107 tatataactg(n)atataacta tatataactg(g)atataacta
160184 tatataactg(n)atataacta tatataactg(a)atataacta
160222 cggaataatg(n)gataataaca cggaataatg(c)gataataaca
160253 cggaataatg(n)gataataaca cggaataatg(c)gataataaca
160282 cggaataatg(n)gataataaca cggaataatg(c)gataataaca
160409 tatataatg(n)atataacta tatataatg(g)atataacta
160423 tatataatg(n)atataacta tatataatg(g)atataacta
197647 atggacaac(n)ntntcgccc atggacaac(n)ntntcgccc
197648 atggacaac(n)ntntcgccc atggacaac(n)ntntcgccc
197649 atggacaac(n)ntntcgccc atggacaac(n)ntntcgccc
197650 atggacaac(n)ntntcgccc atggacaac(n)ntntcgccc
197700 cggaacaagt(n)ntgatgcgc cggaacaagt(n)ntgatgcgc
197701 cggaacaagtn(n)tgatgcgc cggaacaagtn(c)tgatgcgc

```

```

----- Distribution of Quality < 40 Bases -----
500|
450|
400|
350|
300|
250|
200|
150|
100|
50|
# bases
* * * * *

```

```

0| * * * * * * * * * *
5 10 15 20 25 30 35 40
Phrap Value Range

```

```

Version: 1.01 qxfo.
Location/Qualifiers
1. .189456
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="12"
/clone="RP11-813P10"
120. .163
/rpt_family="(TGA)n"
160. .330
/function="unresolved tandem repeat"
169. .326
/rpt_family="(GGA)n"
complement(744. .905)
/rpt_family="MER91A"

```

```

Query Match 1.2%; Score 22; DB 9; Length 189456;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1779 CTCTTCCACCTGGCCGACCC 1800
|||||
Db 104060 CTCTTCCACCTGGCCGACCC 104081

```

```

RESULT 31
AL591488
LOCUS
DEFINITION
AL591488 191494 bp DNA linear ROD 05-APR-2002
Mouse DNA sequence from clone RP23-36P22 on chromosome 2, complete
sequence.
ACCESSION
AL591488
VERSION
AL591488.7 GI:17065727
KEYWORDS
HTG.
SOURCE
house mouse.
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
Pearce, A.
1
Direct Submission
Submitted (04-APR-2002) Wellcome Trust Sanger Institute, Hinxton,
Cambridgeshire, CB10 1SA, UK. E-mail enquiries:
humquery@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk
On Nov 25, 2001 this sequence version replaced gi:17043820.
During sequence assembly data is compared from overlapping clones.
Where differences are found these are annotated as variations
together with a note of the overlapping clone name. Note that the
variation annotation may not be found in the sequence submission
corresponding to the overlapping clone, as we submit sequences with
only a small overlap as described above.
This sequence was finished as follows unless otherwise noted: all
regions were either double-stranded or sequenced with an alternate
chemistry or covered by high quality data (i.e., phred quality >=
30); an attempt was made to resolve all sequencing problems, such
as compressions and repeats; all regions were covered by at least
one plasmid subclone or more than one M13 subclone; and the
assembly was confirmed by restriction digest. The following
abbreviations are used to associate primary accession numbers given
in the feature table with their source databases: Em., EMBL; Sw.,
SWISSPROT; Tr., TrEMBL; Wp., WormPep; Information on the WormPep
database can be found at
http://www.sanger.ac.uk/projects/C.elegans/wormpep RP23-36P22 is
from the RPCI-23 Mouse PAC Library
constructed by the group of Pieter de Jong.
For further details see http://www.chori.org/bacpac/home.htm
VECTOR: pBACE3.6.

```

```

COMMENT
Submitted (04-APR-2002) Wellcome Trust Sanger Institute, Hinxton,
Cambridgeshire, CB10 1SA, UK. E-mail enquiries:
humquery@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk
On Nov 25, 2001 this sequence version replaced gi:17043820.
During sequence assembly data is compared from overlapping clones.
Where differences are found these are annotated as variations
together with a note of the overlapping clone name. Note that the
variation annotation may not be found in the sequence submission
corresponding to the overlapping clone, as we submit sequences with
only a small overlap as described above.
This sequence was finished as follows unless otherwise noted: all
regions were either double-stranded or sequenced with an alternate
chemistry or covered by high quality data (i.e., phred quality >=
30); an attempt was made to resolve all sequencing problems, such
as compressions and repeats; all regions were covered by at least
one plasmid subclone or more than one M13 subclone; and the
assembly was confirmed by restriction digest. The following
abbreviations are used to associate primary accession numbers given
in the feature table with their source databases: Em., EMBL; Sw.,
SWISSPROT; Tr., TrEMBL; Wp., WormPep; Information on the WormPep
database can be found at
http://www.sanger.ac.uk/projects/C.elegans/wormpep RP23-36P22 is
from the RPCI-23 Mouse PAC Library
constructed by the group of Pieter de Jong.
For further details see http://www.chori.org/bacpac/home.htm
VECTOR: pBACE3.6.

```

```
FEATURES
  source
    Location/Qualifiers
      1..191494
        /organism="Mus musculus"
        /db_xref="taxon:10090"
        /chromosome="2"
        /clone="RP23-36P22"
        /clone_lib="RPCI-23"
BASE COUNT 49688 a 46072 c 46038 g 49696 t
ORIGIN
  Query Match 1..2%: Score 22; DB 10; Length 191494;
  Best Local Similarity 100.0%; Pred. No. 2;
  Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1852 ATGAATCAGTGAAGAAAAA 1873
Db 38657 ATGAATCAGTGAAGAAAAA 38678

RESULT 32
AL353591/c
LOCUS
DEFINITION Homo sapiens chromosome 6 clone RP11-366H19, *** SEQUENCING IN
PROGRESS ***, 18 unordered pieces.
ACCESSION AL353591
VERSION AL353591.5 GI:9930866
KEYWORDS HTG; HTGS-PHASE1; HTGS-CANCELLED.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 205272)
Sims.S.
Direct Submission
Submitted (12-JUN-2001) Sanger Centre, Hinxton, Cambridgeshire,
CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk
requests: clonerequests@sanger.ac.uk
On Aug 27, 2000 this sequence version replaced gi:9863646.
----- Genome Center
Center: Sanger Centre
Center code: SC
Web site: http://www.sanger.ac.uk
Contact: humquery@sanger.ac.uk
----- Project Information
Center project name: BA366H19
----- Summary Statistics
Assembly program: XGAP4; version 4.5
Sequencing vector: plasmid; L08752; 100% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Consensus quality: 192563 bases at least Q40
Consensus quality: 197287 bases at least Q30
Consensus quality: 200442 bases at least Q20
Insert size: 203572; sum-of-contigs
Insert size: 183107; 13.0% error; agarose-fp
Quality coverage: 3.30x in Q20 bases; sum-of-contigs Quality
coverage: 3.75x in Q20 bases; agarose-fp
-----
* NOTE: This is a 'working draft' sequence. It currently
* consists of 18 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
* 1 4259: contig of 4259 bp in length
* 4260 4359: gap of 100 bp
* 4360 26102: contig of 21743 bp in length
* 26103 26202: gap of 100 bp
* 26203 28547: contig of 2345 bp in length
* 28548 28647: gap of 100 bp
* 28648 49653: contig of 21006 bp in length
* 49654 49753: gap of 100 bp

FEATURES
  source
    Location/Qualifiers
      1..205272
        /organism="Homo sapiens"
        /db_xref="taxon:9606"
        /chromosome="6"
        /clone="RP11-366H19"
        /clone_lib="RPCI-11.2"
      1..4259
        /note="assembly_fragment:00710"
        /fragment_chain:1
      4360..26102
        /note="assembly_fragment:00448"
        /fragment_chain:1
      26203..28547
        /note="assembly_fragment:01871"
        /fragment_chain:1
      28648..49653
        /note="assembly_fragment:01605"
        /fragment_chain:1
      49754..80134
        /note="assembly_fragment:01641"
        /fragment_chain:1
      80235..83646
        /note="assembly_fragment:01500"
        /fragment_chain:1
      83747..96061
        /note="assembly_fragment:01099"
        /fragment_chain:1
      96162..103311
        /note="assembly_fragment:00756"
        /fragment_chain:2
      103412..122508
        /note="assembly_fragment:01078"
        /fragment_chain:2
      122609..124966
        /note="assembly_fragment:01675"
        /fragment_chain:2
      125067..142955
        /note="assembly_fragment:01165"
        /fragment_chain:3
      143056..161736
        /note="assembly_fragment:01021"
        /fragment_chain:3
      161837..169189
        /note="assembly_fragment:01200"
        /fragment_chain:3
```

```

misc_feature 169290..175251
              /note="assembly_fragment:00119"
misc_feature 175352..181328
              /note="assembly_fragment:00401"
misc_feature 181429..183863
              /note="assembly_fragment:01812"
misc_feature 183964..195169
              /note="assembly_fragment:02127"
misc_feature 195270..205272
              /note="assembly_fragment:01692
clone_end:T7
vector_side:right"
BASE COUNT 53785 a 47341 c 47491 g 54940 t 1715 others
ORIGIN

```

```

Query Match      1.2%  Score 22; DB 2; Length 205272;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1663 GGCCAGGGAGTGAGTGTAGAA 1684
|||||
Db 95161 GGCCAGGGAGTGAGTGTAGAA 95140

```

```

RESULT 33
AC093464
LOCUS       AC093464               208613 bp    DNA    linear    HTG 26-AUG-2001
DEFINITION Mus musculus clone RP23-22511, WORKING DRAFT SEQUENCE, 23 unordered
            pieces
AC093464
VERSION    AC093464.1  GI:15290910
KEYWORDS   HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
SOURCE     Mus musculus.
ORGANISM   Mus musculus

```

```

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

```

```

Birren,B., Linton,L., Linton,L., Nusbaum,C. and Lander,E.
1 (bases 1 to 208613)
Mus musculus, clone RP23-22511
Unpublished

```

```

2 (bases 1 to 208613)
Birren,B., Linton,L., Nusbaum,C., Lander,E., Ali,A., Allen,N.,
Anderson,S., Barna,N., Bastien,V., Boguslavsky,L., Boukhgalter,B.,
Brown,A., Camarata,J., Campopiano,A., Chang,J., Chazaro,B.,
Choepel,Y., Collangelo,M., Collins,S., Collymore,A., Cook,A.,
Cooke,P., DeArellano,K., Dewar,K., Diaz,J.S., Dodge,S., Faro,S.,
Ferreira,P., FitzHugh,W., Gage,D., Galagan,J., Gardyna,S.,
Ginde,S., Gord,S., Goyette,M., Graham,L., Grand-Pierre,N.,
Hagos,B., Hearford,A., Horton,L., Hulme,W., Iliev,I., Johnson,R.,
Jones,C., Kamat,A., Karatas,A., Kells,C., Lacroque,K.,
Lamazares,R., Landers,T., Lehoczy,J., Levine,R., Liu,G.,
MacLean,C., Macdonald,P., Major,J., Marquis,N., Matthews,C.,
McCarthy,M., McEwan,P., McKernan,K., McPheeters,R., Meldrum,J.,
Meneus,L., Mihova,T., Mienga,V., Murphy,T., Naylor,J., Nguyen,C.,
Norbu,C., Norman,C.H., O'Connor,T., O'Donnell,P., O'Neill,D.,
Oliver,J., Peterson,K., Phurikhang,P., Pierre,N., Pollara,V.,
Raymond,C., Retta,R., Rieback,M., Riley,R., Rise,C., Rogov,P.,
Roman,J., Rosetti,M., Roy,A., Santos,R., Schauer,S., Schuback,R.,
Seaman,S., Severy,P., Spencer,B., Stange-Thomann,N., Stojanovic,N.,
Strauss,N., Subramanian,A., Talames,J., Testaye,S., Theodore,J.,
Topham,K., Travers,M., Travis,N., Trigglio,J., Vassiliev,H.,
Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G.,
Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.
Direct Submission

```

```

TITLE      Submitted (26-AUG-2001) Whitehead Institute/MIT Center for Genome
JOURNAL    Research, 320 Charles Street, Cambridge, MA 02141, USA
COMMENT    All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
http://ftp.genome.washington.edu/RM/RepeatMasker.html
----- Genome Center

```

```

Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WIBR
Web site: http://www-seq.wi.mit.edu

```

```

Contact: sequence_submissions@genome.wi.mit.edu
----- Project Information
Center project name: L13278
Center clone name: 225_L1
----- Summary Statistics
Sequencing vector: Plasmid; n/a; 100% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.960731
Consensus quality: 198685 bases at least Q40
Consensus quality: 202938 bases at least Q30
Consensus quality: 204617 bases at least Q20
Insert size: 200000; agarose-fp
Quality coverage: 9.3 in Q20 bases; agarose-fp
Quality coverage: 9.0 in Q20 bases; sum-of-contigs
-----
* NOTE: This is a 'working draft' sequence. It currently
* consists of 23 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

```

```

* 1 8002: contig of 8002 bp in length
* 8003 8102: gap of 100 bp
* 8103 8749: contig of 647 bp in length
* 8750 8849: gap of 100 bp
* 8850 9582: contig of 733 bp in length
* 9583 9682: gap of 100 bp
* 9683 10621: contig of 939 bp in length
* 10622 10721: gap of 100 bp
* 10722 11566: contig of 845 bp in length
* 11567 11666: gap of 100 bp
* 11667 12384: contig of 718 bp in length
* 12385 12484: gap of 100 bp
* 12485 13159: contig of 675 bp in length
* 13160 13259: gap of 100 bp
* 13260 13938: contig of 679 bp in length
* 13939 14038: gap of 100 bp
* 14039 15029: contig of 991 bp in length
* 15030 15129: gap of 100 bp
* 15130 17011: contig of 1882 bp in length
* 17012 17111: gap of 100 bp
* 17112 17861: contig of 750 bp in length
* 17862 17961: gap of 100 bp
* 17962 21075: contig of 3114 bp in length
* 21076 21175: gap of 100 bp
* 21176 24751: contig of 3576 bp in length
* 24752 24851: gap of 100 bp
* 24852 31676: contig of 6825 bp in length
* 31677 31776: gap of 100 bp
* 31777 35627: contig of 3851 bp in length
* 35628 35727: gap of 100 bp
* 35728 41367: contig of 5640 bp in length
* 41368 41467: gap of 100 bp
* 41468 47600: contig of 6133 bp in length
* 47601 47700: gap of 100 bp
* 47701 63154: contig of 15454 bp in length
* 63155 63254: gap of 100 bp
* 63255 78870: contig of 15616 bp in length
* 78871 78970: gap of 100 bp
* 78971 89838: contig of 10868 bp in length
* 89839 89938: gap of 100 bp
* 89939 105150: contig of 15212 bp in length
* 105151 105250: gap of 100 bp
* 105251 176270: contig of 71020 bp in length
* 176271 176370: gap of 100 bp
* 176371 208613: contig of 32243 bp in length.

```

```

FEATURES             Location/Qualifiers
     1..208613
     /organism="Mus musculus"
     /db_xref="taxon:10090"

```

```
/clone="RP23-225L1"
/clone_lib="RPC1-23 Female Mouse BAC"
1. .8002
/clone_end:SP6
/clone_side:left"
vector_side:right"
8103. .8749
/clone="assembly_fragment"
8850. .9582
/clone="assembly_fragment"
9683. 10621
/clone="assembly_fragment"
10722. 11566
/clone="assembly_fragment"
11667. 12384
/clone="assembly_fragment"
12485. 13159
/clone="assembly_fragment"
13260. 13938
/clone="assembly_fragment"
14039. 15029
/clone="assembly_fragment"
15130. 17011
/clone="assembly_fragment"
17112. 17861
/clone="assembly_fragment"
17962. 21075
/clone="assembly_fragment"
21176. 24751
/clone="assembly_fragment"
24852. 31676
/clone="assembly_fragment"
31777. 35627
/clone="assembly_fragment"
35728. 41367
/clone="assembly_fragment"
41468. 47600
/clone="assembly_fragment"
47701. 63154
/clone="assembly_fragment"
63255. 78870
/clone="assembly_fragment"
78971. 89838
/clone="assembly_fragment"
89939. 105150
/clone="assembly_fragment"
105251. 176270
/clone="assembly_fragment"
176371. 208613
/clone_end:T7
vector_side:right"
BASE COUNT 50787 a 53175 c 52217 g 50228 t 2206 others
ORIGIN
Query Match 1.2%; Score 22; DB 2; Length 208613;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1635 GCGAGAGAGGCGAGGAGGCC 1656
|||||
Db 114047 GCGAGAGAGGCGAGGAGGCC 114068
|||||
RESULT 34
AC124604
LOCUS AC124604 223898 bp DNA linear HTG 08-AUG-2002
DEFINITION Mus musculus chromosome UNK clone RP23-81K14, WORKING DRAFT
SEQUENCE, 6 unordered pieces.
ACCESSION AC124604
VERSION AC124604.2 GI:22138688
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
SOURCE house mouse.
```

Mus musculus

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

REFERENCE

AUTHORS

TITLE

JOURNAL

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Center: Washington University Genome Sequencing Center

Center code: WUGSC

Web site: <http://genome.wustl.edu/gsc/index.shtml>

Contact: [submissions@watson.wustl.edu](mailto:submissions@watson.wustl.edu)

Center project name: M\_BA0081K14

Sequencing vector: M13; 0%

Chemistry: Dye-terminator Big Dye; 100% of reads

Assembly program: Phrap; version 0.990319

Consensus quality: 221926 bases at least Q40

Consensus quality: 222804 bases at least Q30

Consensus quality: 223445 bases at least Q20

Insert size: 224000; agarose-1p

Quality coverage: 13.05 in Q20 bases; agarose-1p

Quality coverage: 10.05 in Q20 bases; sum-of-contigs

NOTE: This is a 'working draft' sequence. It currently consists of 6 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

1 1021: contig of 1021 bp in length

1022 1121: gap of unknown length

1122 5763: contig of 4642 bp in length

5764 5863: gap of unknown length

5864 55986: contig of 50123 bp in length

55987 56086: gap of unknown length

56087 222815: contig of 166728 bp in length

222815 222914: gap of unknown length

222915 223359: contig of 445 bp in length

223360 223459: gap of unknown length

223460 223898: contig of 439 bp in length.

Location/Qualifiers

1. .223898

/organism="Mus musculus"

/db\_xref="taxon:10090"

/chromosome="UNK"

/clone="RP23-81K14"

1. .1021

/note="assembly\_name:Contig13"

1122. .5763

/note="assembly\_name:Contig47"

5864. .55986

/note="assembly\_name:Contig48"

56087. .222814

misc\_feature

misc\_feature

misc\_feature

misc\_feature



and  
 \* Keio University School of Medicine, Dept. of Molecular Biology, \*  
 Tokyo 160-8582, Japan,  
 \* e.mail: shimizudmb-med.keio.ac.jp  
 \* URL: http://adenine.dmb.med.keio.ac.jp/  
 and  
 \* GBF, Dept. of Genome Analysis,  
 \* Mascheroder Weg 1, D-38124 Braunschweig, Germany, \* e.mail:  
 info.genome@gbf.de  
 \* URL: http://genome.gbf.de/  
 and  
 \* Max-Planck Institute for Molecular Genetics,  
 \* Ihnestrasse 73, D-14195 Berlin, Germany,  
 \* e.mail: info-chr21emolgen.mpg.de  
 \* URL: http://chr21.rz-berlin.mpg.de/.  
 Location/Qualifiers

## FEATURES

source

```
1. 340000
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="21"
/map="21q22.3"
<1. 56887
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="21"
/map="21q22.3"
/clone="P112E20, 5' partial"
/clone_lib="RPC11,3-5 PAC library"
/note="Accession No. AJ239326"
48466. 94437
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="21"
/map="21q22.3"
/clone="Q1L4"
/clone_lib="LL21NCO2-Q Cosmid library"
/note="Accession No. AJ239326"
81537. 127136
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="21"
/map="21q22.3"
/clone="Q21A11"
/clone_lib="LL21NCO2-Q Cosmid library"
/note="Accession No. AJ239326"
107296. 145960
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="21"
/map="21q22.3"
/clone="Q21G24"
/clone_lib="LL21NCO2-Q Cosmid library"
/note="Accession No. AJ239326"
139689. 270554
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="21"
/map="21q22.3"
/clone="P310E12"
/clone_lib="RPC11,3-5 PAC library"
/note="Accession No. AJ239326"
201007. 340000
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="21"
/map="21q22.3"
/clone="BAC-53I10, 3' partial"
/clone_lib="BAC library"
/note="Accession No. AL133493"
2369. 2656
/note="MLT1B"
/rpt_family="LTR/MaLR"
/rpt_type=DISPERSED
```

repeat\_region

```
3570. 3942
/note="MLT1A1"
/rpt_family="LTR/MaLR"
/rpt_type=DISPERSED
complement(4033. 4108)
/note="L1MC4"
/rpt_family="LINE/L1"
/rpt_type=DISPERSED
complement(4146. 4440)
/note="AluSx"
/rpt_family="SINE/Alu"
/rpt_type=DISPERSED
complement(4462. 4540)
/note="L1MC4"
/rpt_family="LINE/L1"
/rpt_type=DISPERSED
complement(4639. 4938)
/note="L1MC4"
/rpt_family="LINE/L1"
/rpt_type=DISPERSED
6323. 6499
/note="(CA)n"
/rpt_family="Simple_repeat"
/rpt_type=TANDEM
7939. 8070
/note="MLT1A1"
/rpt_family="LTR/MaLR"
/rpt_type=DISPERSED
8831. 9009
/note="(CA)n"
/rpt_family="Simple_repeat"
/rpt_type=TANDEM
9039. 9086
/note="(CA)n"
/rpt_family="Simple_repeat"
/rpt_type=TANDEM
9681. 9973
/note="AluSq"
/rpt_family="SINE/Alu"
/rpt_type=DISPERSED
10026. 10210
/note="MLT2CB"
/rpt_family="LTR/Retroviral"
/rpt_type=DISPERSED
complement(10352. 10487)
/note="L1MC1"
/rpt_family="LINE/L1"
/rpt_type=DISPERSED
10513. 10547
/note="(CA)n"
/rpt_family="Simple_repeat"
/rpt_type=TANDEM
10615. 10676
/note="(TCCA)n"
/rpt_family="Simple_repeat"
/rpt_type=TANDEM
10711. 12174
/note="L1MC1"
/rpt_family="LINE/L1"
/rpt_type=DISPERSED
12376. 12458
/note="L1p"
/rpt_family="LINE/L1"
/rpt_type=DISPERSED
complement(12547. 13571)
/note="L1PA10"
/rpt_family="LINE/L1"
/rpt_type=DISPERSED
13565. 15294
/note="L1PA10"
/rpt_family="LINE/L1"
/rpt_type=DISPERSED
complement(15672. 15818)
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/note="MER58C"
/rpt_family="DNA/MER1_type"
/rpt_type=DISPERSED
15873..16018
/note="MER5A"
/rpt_family="DNA/MER1_type"
/rpt_type=DISPERSED
complement(16149..16241)
/note="MER5A"
/rpt_family="DNA/MER1_type"
/rpt_type=DISPERSED
19408..19479
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/rpt_family="DNA/MER1_type"

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Query Match 1.2% Score 22; DB 9; Length 340000;  
 Best Local Similarity 100.0%; Pred. No. 2;  
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 605 GGGCTGTGGCGGCACCTGTGC 626
|||||
Db 2240 GGGCTGTGGCGGCACCTGTGC 2261

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## RESULT 37

## LOCUS BC033766

DEFINITION Homo sapiens, clone MGC:45023 IMAGE:4177041, mRNA, complete cds.

ACCESSION BC033766

VERSION BC033766.1 GI:21707448

KEYWORDS MGC.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 1050)

Strausberg,R.

Direct Submission

Submitted (02-JUL-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA

NIH-MGC Project URL: <http://mgc.nci.nih.gov>

Contact: MGC help desk

Email: [cgabs@email.nih.gov](mailto:cgabs@email.nih.gov)

Tissue Procurement: David N. Louis, M.D.

cDNA Library Preparation: Life Technologies, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: National Institutes of Health Intramural

Sequencing Center (NISC),

Gaithersburg, Maryland;

Web site: <http://www.nisc.nih.gov/>

Contact: [nisc.mgc@nih.gov](mailto:nisc.mgc@nih.gov)

Akhter,N., Ayele,K., Beckstrom-Sternberg,S.M., Benjamin,B.,

Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Brooks,S.,

Dietrich,N.L., Granite,S., Guan,X., Gupta,J., Haghighi,P.,

Hansen,N., Ho,S.-L., Karlins,E., Kwong,P., Laric,P., Legaspi,R.,

Maduro,Q.L., Mastello,C., Maskeri,B., Mastrian,S.D., McCloskey,J.C.,

McDowell,J., Pearson,R., Stantripop,S., Thomas,P.J., Touchman,J.W.,

Tsurgeon,C., Vogt,J.L., Walker,M.A., Wetherby,K.D., Wiggins,L.,

Young,A., Zhang,L.-H. and Green,E.D.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>  
 Series: IRAK Plate: 68 Row: b Column: 21  
 This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 10835086.

## FEATURES

source

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1..1050
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="MGC:45023 IMAGE:4177041"
/tissue_type="Brain, anaplastic oligodendroglioma with

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1p/19q loss"
/clone_lib="NCI_CGAP_Brn67"
/lab_host="DH10B"
/note="Vector: pCMV-SPORT6"
25..351
/codon_start=1
/product="Unknown (protein for MGC:45023)"
/protein_id="AAH33766.1"
/db_xref="GI:21707448"
/translation="MAAPCLLRGRAGALKTMLOEAQVFRGLASTVLSAASGKSEKG
QPQNSKKQSPKKPAPVPAEPFDNTYKNLQHHDYSTVTFDLNLELSKFRMPQSSG
RESPRH"

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## CDS

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BASE COUNT 292 a 270 c 225 g 263 t
ORIGIN

```

Query Match 1.1% Score 21; DB 9; Length 1050;  
 Best Local Similarity 100.0%; Pred. No. 7.2;  
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1856 ATCAGCTGAAAAA 1876
|||||
Db 986 ATCAGCTGAAAAA 1006

```

## RESULT 38

## LOCUS RLE431175

DEFINITION Rhizobium leguminosarum bv. viciae plasmid pRL6JI fixA,B,C, & W genes, deltaNifH gene and ORFs 71,79 & 5.

ACCESSION AJ431175

VERSION AJ431175.1 GI:18857702

KEYWORDS deltaNifH gene; fixA gene; fixB gene; fixC gene; fixW gene; ORF5; ORF71; ORF79.

SOURCE Rhizobium leguminosarum bv. viciae.

ORGANISM Rhizobium leguminosarum bv. viciae

Bacteria; Proteobacteria; alpha subdivision; Rhizobiaceae group;

Rhizobiaceae; Rhizobium.

1 Martinez,M.

Regulacion simbiotica de la expresion del sistema hidrogenasa por

NifA en R. leguminosarum bv. viciae

Thesis (2000) Department of Biotechnologia, Universidad Politecnica

Madrid, Madrid, Spain

2 Martinez,M., Palacios,J.M., Imperial,J. and Ruiz-Argueso,T.

Autoregulacion of nifA in symbiosis of Rhizobium leguminosarum bv.

viciae UPW791

Unpublished

3 (bases 1 to 5061)

Unpublished

Unpublished

Unpublished

Unpublished

Unpublished

Unpublished

Unpublished

Unpublished

Unpublished

Unpublished

Unpublished

Unpublished

Unpublished

Unpublished

Unpublished

Unpublished

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Unpublished

Unpublished

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/gene="deltanigh"
/note="ribosome binding site"
complement(299..312)
/gene="deltanigh"
/note="RpoN-binding consensus site"
complement(399..401)
/note="NifA binding site (UAS)"
complement(411..413)
/note="NifA binding site (UAS)"
959..961
/note="NifA binding site (UAS)"
972..974
/note="NifA binding site (UAS)"
1039..1054
/note="RpoN-binding consensus site"
ORF71
1066..>1292
/note="ORF71"
1092..1095
/note="ORF71"
1107..1292
/note="ORF71"
/codon_start=1
/transl_table=11
/product="YFX1 protein"
/protein_id="CAD24015.1"
/db_xref="GI:18857704"
/translation="MHIVVCIKQVPGFRLVSSSSGRRQLTATPRSDGHRKEAPPPA
IDLHGELWNLVHLH"
1256..1259
/note="ORF79"
1267..1506
/note="ORF79"
/codon_start=1
/transl_table=11
/product="YFX2 protein"
/protein_id="CAD24016.1"
/db_xref="GI:18857705"
/translation="MASCICIRPHLPVTVTITLSEIRINVTTHPQKPFQKTRSP
AFVQPMERAPLFEIGNATRADTWPEGLIPRRSP"
1418..1433
/note="RpoN-binding consensus site"
fixw"
1512..1514
/note="NifA binding site (UAS)"
1515..2072
/gene="fixw"
1515..1518
/gene="fixw"
1525..1527
/gene="fixw"
/note="NifA binding site (UAS)"
1527..2072
/gene="fixw"
/codon_start=1
/transl_table=11
/product="Fixw protein"
/protein_id="CAD24017.1"
/db_xref="GI:18857706"
/translation="MASSLSGSPAPSAIKALDWLURGEPLSYFQLDKIYVVFSTTCG
YLGPEISDLAKLHKFSDTGVFEFGIAASEKAATADARAGVDASITKSLPTNIRMG
FDSHGEMDWLAKLSFHPVKTEFVDRDGSIAFIGDLVMLQDVLPKVIDGTWRASAE
AKNAEKERIAEGETYAAQIVS"
2003..2007
/gene="fixw"
/note="ORF5"
2014..2217
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/codon_start=1
/transl_table=11
/product="hypothetical protein"
/protein_id="CAD24018.1"
/db_xref="GI:18857707"

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/translation="MPKRSGLLKARLMLRLLRHDRVSAAIKKNKKAALSAIEEGINL
NPDSIFLRNFIGTSSAQSKPGP"
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2181..2196
/gene="fixa"
/note="RpoN-binding consensus site"
2234..2237
/gene="fixa"
2249..3100
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/transl_table=11
/product="Fixa protein"
/protein_id="CAD24019.1"
/db_xref="GI:18857708"
/translation="MHIVVCIKQVPSAQIRVHPVTNTIMROGVPTIINPYDLFALEE
ALQVNRNYGGEVTVLTGPPMAEQALRRKALTHGADRAVLTLDRHFGASDTLATSYALS
QAVAKIGESGAPDIVFTGKQTIIDGTAGVGGIAGKRLNQLQTYTKIVSIDIPTSHR
LMVERHAESGTQMLKSTLPCLITVLEGVNARIIRGLDDAFRAARSPVLKWAADAGIG
ELTKCGLRGSPTVVVRVFAPGPRAEKAMQMDINDKTLAEVAADTAAIIFAREPVLERK
LTSHGNE"
3223..4254
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3223..4254
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/codon_start=1
/transl_table=11
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/protein_id="CAD24020.1"
/db_xref="GI:18857709"
/translation="MELERGKVHPVSIELLEGRRRLADKLGVLAGVILGSSEGVGPK
PAIEAFAYGADIAYLVESPLLYANVRNEPFTKALDVLTHKPEILLGATTLGRDLA
GAVATTLQGTADCTELDDGDSLAATPTFGSLCTIVTLNSRPMATVRSRVY
ATPDRBKPIGRVIOHELTMYEEAIVTKVLAFLCNDGSEQSDLANSDIVVGGIGLGA
AGNLOYLRNLATTIGGVGCGSPVVGKMPADRGICQSGSHDIRPKLYIAAGISGAVQ
HRVGVEGADLLIVAINLDQNAPIFDFAHGVVACALEFLPALTEAFARMOPHNSIKGM
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4241..5061
/gene="fixc"
4241..>5061
/gene="fixc"
/codon_start=1
/transl_table=11
/product="Fixc protein"
/protein_id="CAD24021.1"
/db_xref="GI:18857710"
/translation="MTKSKFDAIVIGAGMSGNAAAYSMARRGLKVLQLERGEHSGSKN
VOGAILVANMLEAIPNFRDDAPLERHLVEORFWMDDSSHTGVHYRSDDFNELKPVV
YTIITRAQDKNFESSKVRAGGTVLCETATKLRDRSGSVIGVYTDREGGVILLADV
LAEGVNLGTRAGLRDMPKPNVAVKREHMPPEVTAERGLTGEGCVIFAGGT
ISRGMAGLGFLYTNKESISVGICLVSLAESMENPYRLLDAPKQHPISIRPLLAGS"
BASE COUNT 1150 a 1398 c 1463 g 1050 t
ORIGIN

Query Match 1.1%; Score 21; DB 1; Length 5061;
Best Local Similarity 100.0%; Pred. No. 7.4;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1756 GCCAGTGGTCCAAAAGGCTG 1776
|||||
Db 3942 GCCAGTGGTCCAAAAGGCTG 3962

RESULT 39
HSU22027/c HSU22027 7215 bp DNA linear PRI 01-JAN-1997
LOCUS Human cytochrome P450 (CYP2A6V2) gene, complete cds.
DEFINITION
ACCESSION U22027

```



```

VERSION      U22027.1  GI:1008461
KEYWORDS     Homo sapiens.
SOURCE       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
ORGANISM     Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE    1 (bases 1 to 7215)
AUTHORS      Fernandez-Salguero, P., Hoffman, S.M., Choleton, S., Mohrenweiser, H.,
              Raunio, H., Rautio, A., Pelkonen, O., Huang, J.D., Evans, W.E.,
              Idle, J.R., et al.
TITLE        A genetic polymorphism in coumarin 7-hydroxylation: sequence of the
              human CYP2A6 genes and identification of variant CYP2A6 alleles
JOURNAL      Am. J. Hum. Genet. 57 (3), 651-660 (1995)
MEDLINE      95397851
PUBMED       7668294
REFERENCE    2 (bases 1 to 7215)
AUTHORS      Fernandez-Salguero, P.
TITLE        Direct Submission
JOURNAL      Submitted (01-MAR-1995) Pedro Fernandez-Salguero, National
              Institutes of Health, 9000 Rockville Pike, Bethesda, MD 20894, USA
FEATURES     Location/Qualifiers
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                1..7215
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                  /db_xref="taxon:9606"
                  782..790
                  /gene="CYP2A6V2"
                  /number=1
                  join(791..970,1237..1399,2115..2264,2499..2659,3207..3383,
                  4257..4398,4873..5060,5577..5718,6308..6489)
                  /gene="CYP2A6V2"
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                  /protein_id="AAB40518.1"
                  /db_xref="GI:1008462"
                  /translation="MLASGMLVALLACLTVMLMSVWQKSKGLPQPTPLPFI
                  NYLQNTQMTNLSMKISERYGPVFTIHGPRVVVLCGHDAVREALVQAEFSGRG
                  EQATPDWFKGVGVFSNGERAKQLLRPAITLRFQGVKGRIEERQIESGFLIEAI
                  RSTGHANTDPTFFLSVTNSVLISSIVFGDRFDYKKEFLSLMLMIGIFQFTSTGQ
                  LYEMFSSVMKHLPGQQAQFQLQLEDFFIAKVEHNTLDLPNSPRDFIDGFLRMQ
                  EEKNPTFEYLNLMWSTLNLFIAGTETVSTLHYGELLMKHPEVEAKVHEIDRV
                  IGKRPQFEDRKMYPMEAVTHEIQRFQDVIPMSLARVKKDTKRFDFLPKGIQV
                  PMLGSVLRDLRFFSNRDNFQHFELGKQKRDFAVPFSIRKNCFCFEGRLARMLF
                  LFTTVQWNERFLKSSQSPKIDVSPKHVGFATIPRNYTMSFLPR"
                  791..970
                  /gene="CYP2A6V2"
                  /number=1
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                  /gene="CYP2A6V2"
                  /number=2
                  2115..2264
                  /gene="CYP2A6V2"
                  /number=3
                  2499..2659
                  /gene="CYP2A6V2"
                  /number=4
                  3207..3383
                  /gene="CYP2A6V2"
                  /number=5
                  4257..4398
                  /gene="CYP2A6V2"
                  /number=6
                  4873..5060
                  /gene="CYP2A6V2"
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                  6308..6489
                  /gene="CYP2A6V2"
                  /number=9
                  6490..6744
                  1646 a 2196 c 1746 g 1627 t
              3'UTR
              BASE COUNT
              ORIGIN

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Query Match      1.1%; Score 21; DB 9; Length 7215;
Best Local Similarity 100.0%; Pred. No. 7.4;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1634 GGGCAGAGAGAGCGGAGG 1654
      |||||
Db 1605 GGGCAGAGAGAGCGGAGG 1585

RESULT 40
A47885/c A47885 7216 bp DNA linear PAT 07-MAR-1997
LOCUS     Sequence 3 from Patent WO9534679.
ACCESSION A47885
VERSION   A47885.1 GI:2301752
KEYWORDS  .
SOURCE    unidentified.
ORGANISM  unclassified.
REFERENCE 1 (bases 1 to 7216)
AUTHORS   Gonzalez, F.J. and Idle, J.R.
TITLE     DEFECTS IN DRUG METABOLISM
JOURNAL   Patent: WO 9534679-A 3 21-DEC-1995;
          US HEALTH (US)
COMMENT   Other publication AU 2860295 960105.
FEATURES  Location/Qualifiers
            1..7216
              /organism="unidentified"
              /db_xref="taxon:32644"
BASE COUNT 1646 a 2196 c 1746 g 1627 t 1 others
ORIGIN      linear PAT 18-FEB-2000

Query Match      1.1%; Score 21; DB 6; Length 7216;
Best Local Similarity 100.0%; Pred. No. 7.4;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1634 GGGCAGAGAGAGCGGAGG 1654
      |||||
Db 1605 GGGCAGAGAGAGCGGAGG 1585

RESULT 41
AR069321/c AR069321 7216 bp DNA linear PAT 18-FEB-2000
LOCUS     Sequence 3 from patent US 5891633.
ACCESSION AR069321
VERSION   AR069321.1 GI:7220209
KEYWORDS  .
SOURCE    Unknown.
ORGANISM  Unclassified.
REFERENCE 1 (bases 1 to 7216)
AUTHORS   Gonzalez, F.J. and Idle, J.R.
TITLE     Defects in drug metabolism
JOURNAL   Patent: US 5891633-A 3 06-APR-1999;
          Location/Qualifiers
          1..7216
            /organism="unknown"
BASE COUNT 1646 a 2196 c 1746 g 1627 t 1 others
ORIGIN      linear PAT 18-FEB-2000

Query Match      1.1%; Score 21; DB 6; Length 7216;
Best Local Similarity 100.0%; Pred. No. 7.4;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1634 GGGCAGAGAGAGCGGAGG 1654
      |||||
Db 1605 GGGCAGAGAGAGCGGAGG 1585

RESULT 42
HSU22028/c

```

Mon Dec 30 09:16:06 2002

```

LOCUS       HSU22028               8778 bp    DNA        linear        PRI 01-JAN-1997
DEFINITION   Human cytochrome P450 (CYP2A13) gene, complete cds.
ACCESSION    U22028
VERSION      U22028.1  GI:1777436
KEYWORDS     Homo sapiens.
SOURCE       Homo sapiens.
ORGANISM     Homo sapiens
              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
              Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE    1 (bases 1 to 8778)
AUTHORS      Fernandez-Salguero,P., Hoffman,S.M., Cholerton,S., Mohrenweiser,H.,
              Raunio,H., Rautio,A., Pelkonen,O., Huang,J.D., Evans,W.E.,
              Idle,J.R. et al.
TITLE        A genetic polymorphism in coumarin 7-hydroxylation: sequence of the
              human CYP2A genes and identification of variant CYP2A6 alleles
JOURNAL      Am. J. Hum. Genet. 57 (3), 651-660 (1995)
MEDLINE      95397851
PUBMED       7668294
REFERENCE    2 (bases 1 to 8778)
AUTHORS      Fernandez-Salguero,P.
TITLE        Direct Submission
JOURNAL      Submitted (01-MAR-1995) Pedro Fernandez-Salguero, National
              Institutes of Health, 9000 Rockville Pike, Bethesda, MD 20894, USA
COMMENT      On Jan 14, 1997 this sequence version replaced gi:1008463.
FEATURES     Location/Qualifiers
              1..8778
                /organism="Homo sapiens"
                /db_xref="taxon:9606"
                652..660
                661..8137
                  /gene="CYP2A13"
                  join(661..840,1117..1279,2232..2381,2590..2750,3917..4093,
                    5813..5954,6440..6627,7155..7296,7956..8137)
                  /gene="CYP2A13"
                  /codon_start=1
                  /product="cytochrome P450"
                  /protein_id="BAB40519.1"
                  /db_xref="GI:1777437"
                  /translation="MLASGLLLVLLACLTVMVLMVVRQSRGKLPPTLPFPIG
                    NYLQNTQMYNSLMKISERYGPVFTIHGFRVVVLCGHDAVKALVDQAEFSGRG
                    EQATDMFKGYVAFNGERAKQLRRESIATLRGFGVGRGIERIEEAGFLDAL
                    RGTGANDITDFYLSRTVTSVSISSIVFGDIEDKEFELSLRMLGRFPQFTSTGQ
                    LYEMSSVMKHLPGPOQAQKELQGLDFIAKVEHQRTLDPNRPDIFDSFLIRMQ
                    EEKNPTVEFLVNLMTLNLFFAGTETVSTTLRYGFLLMKHPEVAKVHEEIDRV
                    IGKRPQFEERAKMPYTEAVTHEIQREGDMLPMGLAHRVNDTKFRDPFLPKGTEVF
                    PMLGSLRDPFFSNPQCSQHFELDEKQPKKSAFVPSIGKRYCFGEGLARMELE
                    LFTTIMQNFRTKSPQSKPDIDVSPKHVGFATIPRNYTMSFLPR"
                  661..840
                    /gene="CYP2A13"
                    /number=1
                  1117..1279
                    /gene="CYP2A13"
                    /number=2
                  2232..2381
                    /gene="CYP2A13"
                    /number=3
                  2590..2750
                    /gene="CYP2A13"
                    /number=4
                  3917..4093
                    /gene="CYP2A13"
                    /number=5
                  5813..5954
                    /gene="CYP2A13"
                    /number=6
                  6440..6627
                    /gene="CYP2A13"
                    /number=7
                  7155..7296
                    /gene="CYP2A13"
                    /number=8
                  7956..8137
                    /gene="CYP2A13"

3'UTR       /number=9
              8138..8390
BASE COUNT   2030 a 2663 c 2014 g 2071 t
ORIGIN
Query Match 1.1%; Score 21; DB 9; Length 8778;
Best Local Similarity 100.0%; Pred. No. 7.5;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1634 GGGCAGAGAGAGGCGAGGAGG 1654
      |||||||||||||||||||
Db 1492 GGGCAGAGAGAGGCGAGGAGG 1472

RESULT 43
LOCUS       A47886/c              8779 bp    DNA        linear        PAT 07-MAR-1997
DEFINITION   Sequence 4 from Patent WO9534679.
ACCESSION    A47886
VERSION      A47886.1  GI:2301753
KEYWORDS     unidentified.
SOURCE       unidentified.
ORGANISM     unidentified.
REFERENCE    1 (bases 1 to 8779)
AUTHORS      Gonzalez,F.J. and Idle,J.R.
TITLE        DEFECTS IN DRUG METABOLISM
JOURNAL      Patent: WO 9534679-A 4 21-DEC-1995;
              US HEALTH (US)
COMMENT      Other publication AU 2860295 960105.
FEATURES     Location/Qualifiers
              1..8779
                /organism="unidentified"
                /db_xref="taxon:32644"
BASE COUNT   2030 a 2663 c 2015 g 2071 t
ORIGIN
Query Match 1.1%; Score 21; DB 6; Length 8779;
Best Local Similarity 100.0%; Pred. No. 7.5;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1634 GGGCAGAGAGAGGCGAGGAGG 1654
      |||||||||||||||||||
Db 1493 GGGCAGAGAGAGGCGAGGAGG 1473

RESULT 44
LOCUS       AR069322/c           8779 bp    DNA        linear        PAT 18-FEB-2000
DEFINITION   Sequence 4 from patent US 5891633.
ACCESSION    AR069322
VERSION      AR069322.1  GI:7220210
KEYWORDS     Unknown.
SOURCE       Unknown.
ORGANISM     Unclassified.
REFERENCE    1 (bases 1 to 8779)
AUTHORS      Gonzalez,F.J. and Idle,J.R.
TITLE        Defects in drug metabolism
JOURNAL      Patent: US 5891633-A 4 06-APR-1999;
              Location/Qualifiers
FEATURES     Location/Qualifiers
              1..8779
                /organism="unknown"
BASE COUNT   2030 a 2663 c 2015 g 2071 t
ORIGIN
Query Match 1.1%; Score 21; DB 6; Length 8779;
Best Local Similarity 100.0%; Pred. No. 7.5;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1634 GGGCAGAGAGAGGCGAGGAGG 1654
      |||||||||||||||||||
Db 1493 GGGCAGAGAGAGGCGAGGAGG 1473
  
```

RESULT 45  
AL807743  
LOCUS  
DEFINITION  
AL807743 30826 bp DNA linear PRI 18-JUL-2002  
Human DNA sequence from clone RP11-1047H1 on chromosome X, complete sequence.  
ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM  
Homo sapiens.  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 30826)  
Chapman, J.  
Direct Submission  
Submitted (18-JUL-2002) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: clonerequest@sanger.ac.uk  
humquerry@sanger.ac.uk  
On Jul 19, 2002 this sequence version replaced gi:21694492.  
----- Genome Center  
Center: Wellcome Trust Sanger Institute  
Center code: SC  
Web site: <http://www.sanger.ac.uk>  
Contact: [humquerry@sanger.ac.uk](mailto:humquerry@sanger.ac.uk)  
-----

During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.

This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest. The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em, EMBL; Sw, SWISSPROT; Tr, TREMBL; Wp, WORMPEP; Information on the WORMPEP database can be found at

[http://www.sanger.ac.uk/Projects/C\\_elegans/wormpep](http://www.sanger.ac.uk/Projects/C_elegans/wormpep) This sequence was generated from part of bacterial clone contigs of human chromosome X, constructed by the Sanger Centre Chromosome X Mapping Group. Further information can be found at

<http://www.sanger.ac.uk/HGP/ChrX>  
RP11-1047H1 is from the library RPCI-11.4 constructed by the group of Pieter de Jong. For further details see

<http://www.chori.org/bacpac/home.htm>  
VECTOR: pBACE3.6.

FEATURES  
source  
Location/Qualifiers  
1..30826  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/chromosome="X"  
/clone="RP11-1047H1"  
/clone\_lib="RPCI-11.4"  
BASE COUNT 9154 a 6286 c 6465 g 8921 t  
ORIGIN

Query Match 1.1%; Score 21; DB 9; Length 30826;  
Best Local Similarity 100.0%; Pred. No. 7.6;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1842 GTATTAAATTATGATCAGCT 1862  
|||||

Db 8393 GTATTAAATTATGATCAGCT 8413

RESULT 46

HSDJ127L3/c  
LOCUS  
DEFINITION  
HSDJ127L3 73198 bp DNA linear PRI 24-MAY-2001  
Human DNA sequence from clone RP1-127L3 on chromosome 11p13  
Contains GSSs and STSs, complete sequence.  
ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 73198)  
Frankland, J.  
Direct Submission  
Submitted (29-JAN-2001) Sanger Centre, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: [humquerry@sanger.ac.uk](mailto:humquerry@sanger.ac.uk)  
requests: [clonerequest@sanger.ac.uk](mailto:clonerequest@sanger.ac.uk)  
On Sep 29, 2000 this sequence version replaced gi:10178889.  
During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.

The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em, EMBL; Sw, SWISSPROT; Tr, TREMBL; Wp, WORMPEP; Information on the WORMPEP database can be found at [http://www.sanger.ac.uk/Projects/C\\_elegans/wormpep](http://www.sanger.ac.uk/Projects/C_elegans/wormpep) IMPORTANT: This sequence is not the entire insert of clone RP1-127L3 it may be shorter because we sequence overlapping sections only once, except for a 100 base overlap.

The true left end of clone RP1-69B10 is at 73099 in this sequence. The true right end of clone RP1-181J22 is at 100 in this sequence. This sequence has been finished according to sequence map criteria as follows. An attempt is made to resolve all sequencing problems, such as compressions and repeats, but not necessarily within known annotated repeat sequence elements. Where the sequence is ambiguous, there is an annotation using the 'unsure' feature key. This sequence was generated by the Sanger Centre from a human chromosome 11 bacterial clone contig constructed by Niederfuhr A. Hummerich H, Gavin B, Boyle S, Little PF, Gessler M. Genomics 1998 Oct 15;53(2):155-63

RP1-127L3 is from the library RPCI-1 constructed by the group of Pieter de Jong. For further details see <http://www.chori.org/bacpac/home.htm>  
VECTOR: PCIPAC2.

FEATURES  
source  
Location/Qualifiers  
1..73198  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/chromosome="11"  
/map="p13"  
/clone="RP1-127L3"  
/clone\_lib="RPCI-1"  
repeat\_region 1..700  
/note="LIMA3 repeat: matches 5524..6214 of consensus"  
701..1001  
/note="AluSc repeat: matches 1..296 of consensus"  
repeat\_region 1002..1081  
/note="LIMA3 repeat: matches 6214..6294 of consensus"  
repeat\_region 1210..1334  
/note="FLAM\_A repeat: matches 1..100 of consensus"  
1335..1386  
/note="26 copies 2 mer ta 86% conserved"  
repeat\_region 1391..1380  
/note="LIPA3 repeat: matches 3636..5925 of consensus"  
3681..3909  
/note="SVA repeat: matches 3..231 of consensus"  
3910..7547  
/note="LIPA3 repeat: matches 1..3637 of consensus"  
7625..7933  
/note="LIM2 repeat: matches 1555..1830 of consensus"

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repeat_region /note="L1MC4 repeat: matches 5852. .6481 of consensus"
repeat_region 8596. .9316
repeat_region /note="L1PA10 repeat: matches 5439. .6159 of consensus"
repeat_region 9317. .9330
repeat_region /note="L1MC4 repeat: matches 6481. .6493 of consensus"
repeat_region 9331. .9639
repeat_region /note="AluX repeat: matches 1. .309 of consensus"
repeat_region 9640. .10077
repeat_region /note="L1MC4 repeat: matches 6493. .6911 of consensus"
repeat_region 10078. .10365
repeat_region /note="AluJo repeat: matches 1. .289 of consensus"
repeat_region 10366. .10465
repeat_region /note="L1MC4 repeat: matches 6911. .7005 of consensus"
repeat_region 10466. .10762
repeat_region /note="AluSg1 repeat: matches 1. .297 of consensus"
repeat_region 10763. .10873
repeat_region /note="L1MC4 repeat: matches 7005. .7234 of consensus"
repeat_region 10916. .11374
repeat_region /note="L1MC3 repeat: matches 7078. .7523 of consensus"
repeat_region 11373. .11811
repeat_region /note="L1M4 repeat: matches 2572. .3021 of consensus"
repeat_region 11798. .12026
repeat_region /note="L1MD repeat: matches 1239. .1464 of consensus"
repeat_region 12863. .13196
repeat_region /note="MER44A repeat: matches 2. .332 of consensus"
repeat_region 13223. .13723
misc_feature complement(13213. .13723)
repeat_region /note="match: GSS: Em:AQ488953"
15327. .15562
repeat_region /note="MIR repeat: matches 3. .243 of consensus"
misc_feature complement(15581. .16014)
repeat_region /note="match: GSS: Em:AQ151486"
16439. .16738
repeat_region /note="AluY repeat: matches 1. .296 of consensus"
repeat_region 17011. .17316
repeat_region /note="AluX repeat: matches 1. .300 of consensus"
repeat_region 17353. .17563
repeat_region /note="L1ME2 repeat: matches 5965. .6167 of consensus"
repeat_region 17561. .18592
repeat_region /note="L1M4 repeat: matches 3328. .4400 of consensus"
repeat_region 18595. .19079
repeat_region /note="L1M4 repeat: matches 721. .1222 of consensus"
misc_feature 19165. .19658
repeat_region /note="match: GSS: Em:AQ518989"
19212. .19430
repeat_region /note="L1MCB repeat: matches 673. .886 of consensus"
repeat_region 19714. .20139
repeat_region /note="L1MCB repeat: matches 132. .514 of consensus"
repeat_region 20265. .20634
repeat_region /note="THE1B repeat: matches 1. .364 of consensus"
repeat_region 21481. .21772
repeat_region /note="AluJo repeat: matches 9. .300 of consensus"
repeat_region 21889. .22112
repeat_region /note="L1M4 repeat: matches 4724. .4967 of consensus"
repeat_region 22814. .22843
repeat_region /note="15 copies 2 mer gt 96% conserved"
23281. .23577
repeat_region /note="MER58B repeat: matches 37. .340 of consensus"
repeat_region 25771. .26172
repeat_region /note="L1MA7 repeat: matches 5892. .6287 of consensus"
misc_feature 26495. .27088
repeat_region /note="match: GSS: Em:AQ077155"
26585. .27514
repeat_region /note="L1PB3 repeat: matches 5090. .6136 of consensus"
repeat_region 27513. .28739
repeat_region /note="L1 repeat: matches 2512. .3729 of consensus"
repeat_region 28740. .29040
repeat_region /note="AluX repeat: matches 1. .304 of consensus"
repeat_region 29041. .30391
repeat_region /note="L1 repeat: matches 3729. .5108 of consensus"
repeat_region 32393. .32607
repeat_region /note="HAL1 repeat: matches 1231. .1500 of consensus"
32608. .34340
```

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repeat_region /note="MER52A repeat: matches 1. .1755 of consensus"
34341. .34437
repeat_region /note="HAL1 repeat: matches 1500. .1583 of consensus"
34949. .35236
repeat_region /note="AluSg repeat: matches 1. .286 of consensus"
36628. .36916
repeat_region /note="AluJo repeat: matches 1. .304 of consensus"
37182. .37309
repeat_region /note="FLAM_A repeat: matches 2. .130 of consensus"
37739. .37880
repeat_region /note="MIR repeat: matches 1. .143 of consensus"
38433. .38454
repeat_region /note="11 copies 2 mer ta 100% conserved"
38460. .38855
repeat_region /note="L1PA5 repeat: matches 5738. .6137 of consensus"
39415. .39547
repeat_region /note="L2 repeat: matches 2550. .2687 of consensus"
39543. .39674
repeat_region /note="L2 repeat: matches 2608. .2746 of consensus"
39740. .40011
repeat_region /note="L1MC4 repeat: matches 7228. .7508 of consensus"
40012. .40322
repeat_region /note="AluY repeat: matches 1. .311 of consensus"
40332. .40525
repeat_region /note="L1PA15 repeat: matches 5958. .6157 of consensus"
40526. .40595
repeat_region /note="L1MC4 repeat: matches 7516. .7587 of consensus"
40596. .40860
repeat_region /note="AluX repeat: matches 44. .309 of consensus"
40861. .41191
repeat_region /note="L1MC4 repeat: matches 7587. .7888 of consensus"
41201. .41455
repeat_region /note="AluJo repeat: matches 1. .250 of consensus"
41609. .41898
repeat_region /note="AluSg repeat: matches 1. .288 of consensus"
42491. .42516
repeat_region /note="13 copies 2 mer aa 92% conserved"
42577. .42734
misc_feature /note="match: STS: Em:G06939"
42952. .43246
repeat_region /note="AluX repeat: matches 3. .297 of consensus"
43741. .43878
repeat_region /note="L1PA6 repeat: matches 6004. .6141 of consensus"
43886. .44795
repeat_region /note="L1P repeat: matches 3614. .4523 of consensus"
complement(44811. .45290)
misc_feature /note="match: GSS: Em:AQ812912"
complement(44823. .45237)
misc_feature /note="match: GSS: Em:AQ237862"
match: STS: Em:G60966"
complement(44836. .45296)
misc_feature /note="match: GSS: Em:AQ821283"
complement(44839. .45293)
misc_feature /note="match: GSS: Em:AQ436325"
45147. .45216
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Query Match 1.1%; Score 21; DB 9; Length 73198;  
Best Local Similarity 100.0%; Pred. No. 7.7;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1856 ATCAGCTGAAAAA 1876  
AAAAAAAAAAAAAAAA  
Db 32330 ATCAGCTGAAAAA 32310  
AAAAAAAAAAAAAAAA

## RESULT 47

AC078903  
LOCUS AC078903 95359 bp DNA linear PRI 17-JUL-2002  
DEFINITION Homo sapiens chromosome 17, clone RP11-1084K4, complete sequence.  
ACCESSION AC078903  
VERSION AC078903.11 GI:21886885  
KEYWORDS HTG.  
SOURCE human.

|           |  |  |
|-----------|--|--|
| ORGANISM  | Homo sapiens   | Direct Submission  |
| REFERENCE | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. | Submitted (17-JUL-2002) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA |
| AUTHORS   | 1 (bases 1 to 95359)   | On Jul 17, 2002 this sequence version replaced gi:21702854.  |
| TITLE     | Homo sapiens chromosome 17, clone RP11-1084K4  | All repeats were identified using RepeatMasker:  |
| REFERENCE | Unpublished  | Smit, A.F.A. & Green, P. (1996-1997)   |
| AUTHORS   | 2 (bases 1 to 95359)   | http://ftp.genome.washington.edu/RM/RepeatMasker.html  |
|           |  | ----- Genome Center  |
|           |  | Center: Whitehead Institute/ MIT Center for Genome Research  |
|           |  | Center code: WIBR  |
|           |  | Web site: http://www-seq.wi.mit.edu  |
|           |  | Contact: sequence_submissions@genome.wi.mit.edu  |
|           |  | ----- Project Information  |
|           |  | Center project name: L10469  |
|           |  | Center clone name: 1084_K_4  |
|           |  | -----  |
|           |  | T7 end overlaps AC020558 [WashU]; we are submitting only the first 95.4 kilobases of the project.                        |
| FEATURES  | Source   | Location/Qualifiers  |
|           | repeat_region  | 1..95359   |
|           | repeat_region  | /organism="Homo sapiens"   |
|           | repeat_region  | /db_xref="taxon:9606"  |
|           | repeat_region  | /chromosome="17"   |
|           | repeat_region  | /map="17"  |
|           | repeat_region  | /clone_lib="RPC1-11 Human Male BAC"  |
|           | repeat_region  | complement(3..461)   |
|           | repeat_region  | /rpt_family="L2"   |
|           | repeat_region  | 722..830   |
|           | repeat_region  | /rpt_family="L2"   |
|           | repeat_region  | 1337..1369   |
|           | repeat_region  | /rpt_family="(T)n"   |
|           | repeat_region  | complement(1375..1619)   |
|           | repeat_region  | /rpt_family="AluSp"  |
|           | repeat_region  | 1845..1976   |
|           | repeat_region  | /rpt_family="MLT1J2"   |
|           | repeat_region  | complement(2171..2327)   |
|           | repeat_region  | /rpt_family="L2"   |
|           | repeat_region  | complement(2372..2485)   |
|           | repeat_region  | /rpt_family="L2"   |
|           | repeat_region  | 2494..2606   |
|           | repeat_region  | /rpt_family="MIR"  |
|           | repeat_region  | 3458..3615   |
|           | repeat_region  | /rpt_family="MIR"  |
|           | repeat_region  | 3666..3857   |
|           | repeat_region  | /rpt_family="L2"   |
|           | repeat_region  | 3920..4002   |
|           | repeat_region  | /rpt_family="THE1A"  |
|           | repeat_region  | complement(4003..4276)   |
|           | repeat_region  | /rpt_family="AluJb"  |
|           | repeat_region  | 4277..4475   |
|           | repeat_region  | /rpt_family="L2"   |
|           | repeat_region  | 5125..5436   |
|           | repeat_region  | /rpt_family="AluSp"  |
|           | repeat_region  | 6186..6362   |
|           | repeat_region  | /rpt_family="L2"   |
|           | repeat_region  | 6363..6624   |
|           | repeat_region  | /rpt_family="AluSg1"   |
|           | repeat_region  | 6625..6653   |
|           | repeat_region  | /rpt_family="(CA)n"  |
|           | repeat_region  | 6654..6720   |
|           | repeat_region  | /rpt_family="L2"   |
|           | repeat_region  | complement(7240..7552)   |
|           | repeat_region  | /rpt_family="AluSg"  |
|           | repeat_region  | 8803..9065   |
|           | repeat_region  | /rpt_family="AluJb"  |
|           | repeat_region  | 9582..9643   |
|           | repeat_region  | /rpt_family="(TTCA)n"  |
|           | repeat_region  | complement(9706..9748)   |
|           | repeat_region  | /rpt_family="L2"   |
|           | repeat_region  | 10777..10817   |
|           | repeat_region  | /rpt_family="CT-rich"  |

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repeat_region 10889..10967
/rpt_family="(TG)n"
repeat_region 11419..11495
/rpt_family="MIR"
repeat_region 12567..12629
/rpt_family="Cr-rich"
repeat_region 13649..13694
/rpt_family="(CCCC)n"
unsure 15951..15956
/note="<30 qual SNGL region"
repeat_region 16009..16108
/rpt_family="(CA)n"
repeat_region complement(16298..16402)
/rpt_family="L3"
repeat_region 16403..16705
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/rpt_family="AluSx"
repeat_region complement(17003..17086)
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repeat_region complement(17603..17767)
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repeat_region 18379..18568
/rpt_family="MIR3"
repeat_region complement(18996..19107)
/rpt_family="Charlie8"
repeat_region 19358..19430
/rpt_family="MIR"
repeat_region 19823..20000
/rpt_family="MIR"
repeat_region complement(22396..22505)
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repeat_region 23219..23293
/rpt_family="MIR"
repeat_region 23868..23907
/rpt_family="(CA)n"
repeat_region 23983..24034
/rpt_family="(CA)n"
repeat_region 24608..24677
/rpt_family="MIR3"
repeat_region 24698..24863
/rpt_family="MIR3"
repeat_region 25028..25226
/rpt_family="LIME4A"
repeat_region 27634..27665
/rpt_family="(A)n"
repeat_region 27815..27837
/rpt_family="GC-rich"

Query Match 1.1%; Score 21; DB 9; Length 95359;
Best Local Similarity 100.0%; Pred. No. 7.7;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1643 GAGGCAGGAGGCGCAGTGAGG 1663
|||||
Db 66420 GAGGCAGGAGGCGCAGTGAGG 66440

RESULT 48
AC010494 105448 bp DNA linear PRI 18-APR-2000
LOCUS Homo sapiens chromosome 16 clone CTD-2349B8, complete sequence.
DEFINITION AC010494
ACCESSION AC010494
VERSION AC010494.4 GI:7109400
KEYWORDS HTG.
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 105448)
AUTHORS DOE Joint Genome Institute and Stanford Human Genome Center.
TITLE Direct Submission
JOURNAL Unpublished

repeat_region 10889..10967
/rpt_family="(TG)n"
repeat_region 11419..11495
/rpt_family="MIR"
repeat_region 12567..12629
/rpt_family="Cr-rich"
repeat_region 13649..13694
/rpt_family="(CCCC)n"
unsure 15951..15956
/note="<30 qual SNGL region"
repeat_region 16009..16108
/rpt_family="(CA)n"
repeat_region complement(16298..16402)
/rpt_family="L3"
repeat_region 16403..16705
/rpt_family="AluSb"
repeat_region 16705..17002
/rpt_family="AluSx"
repeat_region complement(17003..17086)
/rpt_family="L3"
repeat_region complement(17603..17767)
/rpt_family="AluJb"
repeat_region 18379..18568
/rpt_family="MIR3"
repeat_region complement(18996..19107)
/rpt_family="Charlie8"
repeat_region 19358..19430
/rpt_family="MIR"
repeat_region 19823..20000
/rpt_family="MIR"
repeat_region complement(22396..22505)
/rpt_family="MIR"
repeat_region 23219..23293
/rpt_family="MIR"
repeat_region 23868..23907
/rpt_family="(CA)n"
repeat_region 23983..24034
/rpt_family="(CA)n"
repeat_region 24608..24677
/rpt_family="MIR3"
repeat_region 24698..24863
/rpt_family="MIR3"
repeat_region 25028..25226
/rpt_family="LIME4A"
repeat_region 27634..27665
/rpt_family="(A)n"
repeat_region 27815..27837
/rpt_family="GC-rich"

Query Match 1.1%; Score 21; DB 9; Length 105448;
Best Local Similarity 100.0%; Pred. No. 7.7;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1643 GAGGCAGGAGGCGCAGTGAGG 1663
|||||
Db 54552 GAGGCAGGAGGCGCAGTGAGG 54572

RESULT 49
AL773521 119707 bp DNA linear HTG 16-AUG-2002
LOCUS Sus scrofa clone XX-339A5, *** SEQUENCING IN PROGRESS ***, 4
DEFINITION AL773521
ACCESSION AL773521.7 GI:22316197
VERSION AL773521.7
KEYWORDS HTG; HTGS_PHASE1; HTGS_ACTIVEFIN; HTGS_DRAFT; HTGS_FULLTOP.
SOURCE pig.
ORGANISM Sus scrofa
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
REFERENCE 1 (bases 1 to 119707)
AUTHORS Sehra, H.
TITLE Direct Submission
JOURNAL Submitted (14-AUG-2002) Wellcome Trust Sanger Institute, Hinxton,
Cambridgeshire, CB10 1SA, UK. E-mail enquiries:
humquery@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk
On Aug 19, 2002 this sequence version replaced gi:21911701.
----- Genome Center
Center: Wellcome Trust Sanger Institute
Center code: SC
Web site: http://www.sanger.ac.uk
Contact: humquery@sanger.ac.uk
----- Project Information
Center project name: bs339A5
----- Summary Statistics
Assembly program: XGAP4; version 4.5
Sequencing vector: plasmid; L08752; 100% of reads
Chemistry: Dye-terminator; 11% of reads
Chemistry: Dye-terminator Big Dye; 88% of reads
```

Consensus quality: 118859 bases at least Q40  
Consensus quality: 119194 bases at least Q30  
Consensus quality: 119351 bases at least Q20  
Insert size: 119407; sum-of-contigs  
Quality coverage: 9.65x in Q20 bases; sum-of-contigs Quality  
coverage: 10.29x in Q20 bases; agarose-fp

\*\*\*\*\*  
\* NOTE: This is a 'working draft' sequence. It currently  
\* consists of 4 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence  
\* as soon as it is available and the accession number will  
\* be preserved.

\*\*\*\*\*  
\* 1 2906: contig of 2906 bp in length  
\* 2907 3006: gap of 100 bp  
\* 3007 24103: contig of 21097 bp in length  
\* 24104 24203: gap of 100 bp  
\* 24204 73965: contig of 49762 bp in length  
\* 73966 74065: gap of 100 bp  
\* 74066 119707: contig of 45642 bp in length.

## FEATURES

source  
1. .119707  
/organism="Sus scrofa"  
/db\_xref="taxon:9823"  
/clone\_lib="SBAB"  
1. .2906  
/note="assembly\_fragment:01782"  
3007. .24103  
/note="assembly\_fragment:01878"  
24204. .73965  
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74066. .119707  
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BASE COUNT 32568 a 27491 c 27653 g 31695 t 300 others  
ORIGIN

Query Match 1.1%; Score 21; DB 2; Length 119707;  
Best Local Similarity 100.0%; Pred.No. 7.7;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 872 CTGTCCCTGGCTACACGGG 892  
|||||  
Db 21637 CTGTCCCTGGCTACACGGG 21657

RESULT 50  
AL773562/c

LOCUS AL773562 126895 bp DNA linear HTG 16-AUG-2002  
DEFINITION Sus scrofa clone XX-649D6, \*\*\* SEQUENCING IN PROGRESS \*\*\*, 2  
unordered pieces.

ACCESSION AL773562  
VERSION AL773562.10 GI:22316199  
KEYWORDS HTG; HTGS\_PHASE1; HTGS\_ACTIVEFIN; HTGS\_DRAFT; HTGS\_FULLTOP.  
SOURCE pig.

## ORGANISM

Sus scrofa  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.  
1 (bases 1 to 126895)

## REFERENCE

AUTHORS Sehra, H.  
TITLE Direct Submission  
JOURNAL Submitted (14-AUG-2002) Wellcome Trust Sanger Institute, Hinxton,  
Cambridgeshire, CB10 1SA, UK. E-mail enquiries:  
humquery@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk  
On Aug 19, 2002 this sequence version replaced gi:21955693.

## COMMENT

----- Genome Center  
Center: Wellcome Trust Sanger Institute  
Center code: SC  
Web site: http://www.sanger.ac.uk  
Contact: humquery@sanger.ac.uk

\*\*\*\*\* Project Information  
Center project name: BS649D6  
\*\*\*\*\* Summary Statistics  
Assembly program: XGAP4; version 4.5  
Sequencing vector: plasmid; L08752; 100% of reads  
Chemistry: Dye-terminator; 13% of reads  
Chemistry: Dye-terminator Big Dye; 86% of reads  
Consensus quality: 126617 bases at least Q40  
Consensus quality: 126617 bases at least Q30  
Consensus quality: 126713 bases at least Q20  
Insert size: 126795; sum-of-contigs  
Insert size: 126270; 8.2% error; agarose-fp  
Quality coverage: 9.62x in Q20 bases; sum-of-contigs Quality  
coverage: 10.33x in Q20 bases; agarose-fp

\*\*\*\*\*  
\* NOTE: This is a 'working draft' sequence. It currently  
\* consists of 2 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence  
\* as soon as it is available and the accession number will  
\* be preserved.

\*\*\*\*\*  
\* 1 53711: contig of 53711 bp in length  
\* 53712 53811: gap of 100 bp  
\* 53812 126895: contig of 73084 bp in length.

## FEATURES

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1. .126895  
/organism="Sus scrofa"  
/db\_xref="taxon:9823"  
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vector\_side:left  
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/note="assembly\_fragment:03452"  
fragment\_chain:1  
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1. .53711  
misc\_feature  
1. .126895

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ORIGIN

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Best Local Similarity 100.0%; Pred.No. 7.7;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 872 CTGTCCCTGGCTACACGGG 892  
|||||  
Db 77606 CTGTCCCTGGCTACACGGG 77586

Search completed: December 29, 2002, 01:55:42  
Job time : 9886 secs





GenCore version 5.1.3  
Copyright (c) 1993 - 2002 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 28, 2002, 16:45:43 ; Search time 1771.2 Seconds  
(without alignments)  
12124.644 Million cell updates/sec

Title: US-09-944-896-49\_COPY\_123\_1448

Perfect score: 1326

Sequence: 1 atgtgtcatccagagacctc.....gaaacggttacatctgcccag 1326

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 32308132

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

EST:\*

1: em\_estba:\*

2: em\_esthum:\*

3: em\_estin:\*

4: em\_estmu:\*

5: em\_estov:\*

6: em\_estpl:\*

7: em\_estro:\*

8: em\_htc:\*

9: gb\_est1:\*

10: gb\_est2:\*

11: gb\_htc:\*

12: gb\_est3:\*

13: gb\_est4:\*

14: gb\_est5:\*

15: em\_estfun:\*

16: em\_estom:\*

17: gb\_gss:\*

18: em\_gss\_hum:\*

19: em\_gss\_inv:\*

20: em\_gss\_pln:\*

21: em\_gss\_vrt:\*

22: em\_gss\_fun:\*

23: em\_gss\_mam:\*

24: em\_gss\_mus:\*

25: em\_gss\_other:\*

26: em\_gss\_pro:\*

27: em\_gss\_rod:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|-------------|
| 1          | 754   | 56.9        | 836    | 13    | BI764403    |
| 2          | 752.2 | 56.7        | 1034   | 14    | BM924615    |
| 3          | 723.4 | 54.6        | 928    | 13    | BI517774    |
| 4          | 684.6 | 51.6        | 1076   | 13    | BM547887    |
| 5          | 676   | 51.0        | 710    | 13    | BI760121    |
| 6          | 632.2 | 47.7        | 939    | 13    | BI757380    |

|    |       |      |     |    |          |
|----|-------|------|-----|----|----------|
| 7  | 622.2 | 46.9 | 645 | 14 | BM695392 |
| 8  | 579.8 | 43.7 | 704 | 9  | AL040183 |
| 9  | 516.2 | 38.9 | 709 | 13 | BI759120 |
| 10 | 489.8 | 36.9 | 916 | 13 | BI759353 |
| 11 | 470.2 | 35.5 | 852 | 13 | BI762690 |
| 12 | 335.4 | 25.3 | 463 | 9  | AI792411 |
| 13 | 313.4 | 23.6 | 429 | 12 | BF198258 |
| 14 | 299.4 | 22.6 | 500 | 13 | BI761101 |
| 15 | 293.2 | 22.1 | 521 | 13 | BI340175 |
| 16 | 271.6 | 20.5 | 339 | 12 | BG608968 |
| 17 | 213.8 | 16.1 | 299 | 13 | BI775946 |
| 18 | 199.2 | 15.0 | 392 | 10 | AW437073 |
| 19 | 176.2 | 13.3 | 634 | 10 | BB602462 |
| 20 | 168   | 12.7 | 321 | 13 | BI359591 |
| 21 | 168   | 12.7 | 411 | 14 | W79362   |
| 22 | 158   | 11.9 | 617 | 9  | AI307814 |
| 23 | 156.8 | 11.8 | 523 | 10 | AW786132 |
| 24 | 153.2 | 11.6 | 612 | 12 | BF057185 |
| 25 | 152.8 | 11.5 | 611 | 10 | AW299257 |
| 26 | 149   | 11.2 | 744 | 14 | BQ006636 |
| 27 | 141   | 10.6 | 612 | 14 | BQ446805 |
| 28 | 136.6 | 10.3 | 457 | 13 | BI759735 |
| 29 | 118   | 8.9  | 263 | 13 | BM481198 |
| 30 | 114.6 | 8.6  | 483 | 12 | BF078053 |
| 31 | 114   | 8.6  | 756 | 12 | BF527554 |
| 32 | 110.8 | 8.4  | 351 | 10 | AW314352 |
| 33 | 110.6 | 8.3  | 650 | 10 | BB496358 |
| 34 | 100.6 | 7.6  | 629 | 13 | BI134777 |
| 35 | 90    | 6.8  | 578 | 14 | BQ720124 |
| 36 | 83.4  | 6.3  | 659 | 17 | BH327544 |
| 37 | 81    | 6.1  | 459 | 10 | AW465507 |
| 38 | 80.6  | 6.1  | 260 | 13 | BI976862 |
| 39 | 80    | 6.0  | 405 | 14 | BM708158 |
| 40 | 80    | 6.0  | 495 | 9  | AI989724 |
| 41 | 78    | 5.9  | 509 | 9  | AI627475 |
| 42 | 77.4  | 5.8  | 494 | 9  | AI433291 |
| 43 | 73.4  | 5.5  | 336 | 10 | AW436875 |
| 44 | 73    | 5.5  | 490 | 10 | AW001740 |
| 45 | 68.2  | 5.1  | 606 | 17 | BH040326 |

# ALIGNMENTS

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LOCUS  
DEFINITION 603046141f1 NIH\_MGC\_116 Homo sapiens CDNA clone IMAGE:5186219 5',  
636 bp mRNA linear EST 25-SEP-2001  
ACCESSION BI764403  
VERSION BI764403.1 GI:15755981  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 836)  
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.  
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
JOURNAL Unpublished (1999)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: cgaps-r@mail.nih.gov  
Tissue Procurement: Life Technologies, Inc.  
CDNA Library Preparation: Life Technologies, Inc.  
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: Incyte Genomics, Inc.  
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:  
http://image.llnl.gov  
Plate: L14M11465 row: b column: 12  
High quality sequence stop: 761.  
Location/Qualifiers  
1. 836

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AL040183 DKFZP434F  
BI759120 603042530  
BI759353 603043013  
BI762690 603048444  
AI792411 an34b09.y  
BF198258 248012 MA  
BI761101 603043573  
BI340175 365365 MA  
BG608968 322458 MA  
BI775946 468679 MA  
AW437073 77836 MAR  
BB602462 BB602462  
BI359591 384181 MA  
W79362 z072d09.r1  
AI307814 t028d11.x  
AW786132 118625 MA  
BF057185 7k17b07.x  
AW299257 xs48f01.x  
BQ006636 UI-H-E11-  
BQ446805 UI-H-E11-  
BI759735 603045609  
BM481198 533084 MA  
BF078053 228296 MA  
BF527554 602040477  
AW314352 10382 MAR  
BA496358 BB496358  
BI134777 UI-M-BH3-  
BQ720124 AGENCOURT  
BH327544 CH230-105  
AW465507 BP230019B  
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BI76862 486025 MA  
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AI627475 ty80a06.x  
AI433291 t186b01.x  
AW436875 77432 MAR  
AW001740 ws04c06.x  
BH040326 RPC1-24-3

|                       |   |  |                                       |
|-----------------------|---|--|---------------------------------------|
| Db                    | 720   | GGAGGAAGAGTGGCTCTGCTGACCTGTGTGGACATCGCGTACGGGGGAGACCAAGTGTGCCACC | 779                                   |
| Qy                    | 880   | AA-GGTGCATTTTCCCTTCCACACCTGTGACCTGAGGATCGACGGA                   | 924                                   |
| Db                    | 780   | AAGGTGCATTTGCCCTTCCACCACTGTGACCTGAGGATCGACGGA                    | 825                                   |
| RESULT 2              |   |  |                                       |
| BM924615              |   |  |                                       |
| LOCUS                 |   |  |                                       |
| DEFINITION            | BM924615  | 1034 bp mRNA linear EST 12-MAR-2002                              |                                       |
| ACCESSION             | AGENCOURT_5767842   | NIH_MGC_116  | Homo sapiens cDNA clone IMAGE:5761001 |
| VERSION               |   |  |                                       |
| KEYWORDS              | BM924615.1  | GI:19374994  |                                       |
| SOURCE                | EST.  |  |                                       |
| ORGANISM              | human.  |  |                                       |
| REFERENCE             | Homo sapiens  |  |                                       |
| AUTHORS               | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  |  |                                       |
| TITLE                 | 1 (bases 1 to 1034)   |  |                                       |
| JOURNAL               | NIH-MGC <a href="http://mgc.ncl.nih.gov/">http://mgc.ncl.nih.gov/</a> .   |  |                                       |
| COMMENT               | National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999)   |  |                                       |
|                       | Contact: Robert Strausberg, Ph.D.   |  |                                       |
|                       | Email: cgapbs-r@mail.nih.gov  |  |                                       |
|                       | Tissue Procurement: Life Technologies, Inc.   |  |                                       |
|                       | cDNA Library Preparation: Life Technologies, Inc.   |  |                                       |
|                       | DNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  |  |                                       |
|                       | DNA Sequencing by: Agencourt Bioscience Corporation   |  |                                       |
|                       | Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <a href="http://image.llnl.gov">http://image.llnl.gov</a>  |  |                                       |
|                       | Plate: LLAM12808  | row: 0   | column: 18                            |
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|                       | /clone_lib="NIH_MGC_116"  |  |                                       |
|                       | /lab_host="DH10B"   |  |                                       |
|                       | /note="Organ: pooled colon, kidney, stomach; Vector: pCMV-SPORT6; Site_1: NotI; Site_2: EcoRV (destroyed); RNA source anonymous pool of 3 colons, age 26 yo male, 49 yo female, 71 yo male colon; 46 yo male kidney, and pool of 2 stomachs, 62 yo male and 70 yo female. Library is oligo-dr primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.4 kb, insert size range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 023. Note: this is a NIH_MGC Library." |  |                                       |
| BASE COUNT            | 186 a   | 336 c  | 321 g 189 t 2 others                  |
| ORIGIN                |   |  |                                       |
| Query Match           |   | 56.7%;   | Score 752.2; DB 14; Length 1034;      |
| Best Local Similarity |   | 93.4%;   | Pred. No. 5.4e-159;                   |
| Matches               | 840;  | Conservative   | 0; Mismatches 50; Indels 9; Gaps 5;   |
| Qy                    | 1   | ATGCTGCATCCAGAGACCTCCCTGGCCGGGGGCGATCTCTTGGCTGTGCTTGGCCCTC       | 60                                    |
| Db                    | 120   | ATGCTGCATCCAGAGACCTCCCTGGCCGGGGGCGATCTCTTGGCTGTGCTTGGCCCTC       | 179                                   |
| Qy                    | 61  | CTTGGCACCACTGGCGAGAGGTGTGCCACCCAGCTGCAGGACGAGCTCCGATGGCC         | 120                                   |
| Db                    | 180   | CTTGGCACCACTGGCGAGAGGTGTGCCACCCAGCTGCAGGACGAGCTCCGATGGCC         | 239                                   |
| Qy                    | 121   | GGAGCCCTGAACAGGAGGAGTTCCTTGCTCTCTCCCTGACAAACCGCTCGCGCAGC         | 180                                   |
| Db                    | 240   | GGAGCCCTGAACAGGAGGAGTTCCTTGCTCTCTCCCTGACAAACCGCTCGCGCAGC         | 299                                   |
| Qy                    | 181   | TGGGTCCAGCCCTCGCGCTGACATGCGGAGGCTGGACTGGAGTGCACAGCCTGGCCAA       | 240                                   |

Db 300 TGGTCCAGCCCCCTGGGCTGACATCGGGAGGCTGGAGTGACAGCCTGGCCCCAG 359  
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 Db 360 CTGGCTCAAGCCAGGCGACCCCTCTGTGGAACCCCAACCCGAGCCTGGCTCGGCCCCG 419  
 QY 301 TGGCGCACCCCTGCAAGTGGGCTGGAACATGACAGTGCCTGCCCGCGGCTTGGCGTCTTT 360  
 Db 420 TGGCGCACCCCTGCAAGTGGGCTGGAACATGACAGTGCCTACCOCGGGCTTGTGTCTCTT 479  
 QY 361 GTTCAAGTGGTCAAGCTATGTTTGCAGAGGGGACGGTACAGCCACGCGCAGAGAG 420  
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 QY 421 TGTGCTGCAACGCCACCTGCAACCCACATACAGCAGCTGCTGTGGCGCACCTCAAGCCAG 480  
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 Db 660 GCCTACTCCCCCGGAGGCACTGGAGGTC-AACGGGAGAGCAATCATCCCTATTAAGAA 719  
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 Db 720 GGGTGCCTGTGTTGGCTCTGCACAGCCAGTGTCTCAGGCTGCTCAAGAGCCTGGGACCA 779  
 QY 660 TGCA-GGGGGGCTGTGTGAGTTCGCCAGGAATCTTGTGCGATGAGTCCGCAAGCCATG 718  
 Db 780 TGCAAGGGGGGCTGTGTGAGTTCGCCAGGAATCTTGTGCGATGAGTCCGCA-AACATG 838  
 QY 719 GACGCTCAACATCAGCAGCTGCGACTGCGACTGTCGCCCTGGCTACAGGGCAGATACT 778  
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 QY 779 GCCAAGTGGTGGAG-CCTGCAGTGTGTGACGCGCGGCTTCCGGG-AGGAGGAGT 832  
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 QY 833 GCTCGTGGTGTGTGACATCGGCTACGCGGGAGCCAGTGTGCCACCAAGGTCATTTT 891  
 Db 959 CTTCGCTCTTTAATCATCGGCTAGGGGGGGAACCCAGGTCGCCCCCGAGGGGCATTT 1017

RESULT 3  
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 mRNA sequence.  
 ACCESSION B1517774  
 VERSION B1517774.1 GI:15342566  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.  
 1 (bases 1 to 928)  
 NIH-MGC http://mgi.nci.nih.gov/.  
 National Institutes of Health, Mammalian Gene Collection (MGC)  
 Unpublished (1999)  
 Contact: Robert Strausberg, Ph.D.  
 Email: cchapman@remail.nih.gov  
 Tissue Procurement: Life Technologies, Inc.  
 cDNA Library Preparation: Life Technologies, Inc.  
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
 DNA Sequencing by: Incyte Genomics, Inc.  
 Clone distribution: MGC clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
 http://image.llnl.gov  
 Plate: LLAM1455 row: c column: 06

FEATURES  
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 /lab\_host="DH10B"  
 /note="Organ: pooled colon, kidney, stomach; Vector: pCMV-SPORT6; Site\_1: NotI; Site\_2: EcoRV (destroyed); RNA source anonymous pool of 3 colons, age 26 yo male, 49 yo female, 71 yo male colon; 46 yo male kidney, and pool of 2 stomachs, 62 yo male and 70 yo female. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.4 kb, insert size range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 023. Note: this is a NIH\_MGC Library."  
 BASE COUNT 169 a 293 c 307 g 159 t  
 ORIGIN  
 Query Match 54.6%; Score 723.4; DB 13; Length 928;  
 Best Local Similarity 94.9%; Pred. No. 1.6e-152;  
 Matches 823; Conservative 0; Mismatches 36; Indels 8; Gaps 7;  
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 QY 62 TTGGCACCACTGGGCGAGAGGTGGCCACCCAGCTGCAGGAGGAGGCTCCGATGGCGG 121  
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 Db 362 GGGCGACCCCTGCAAGTGGGCTGGAACATGACAGTGTCTGCCCGCGGCTTGGTGTCT 421  
 QY 362 TTGAAGTGGTCAAGCTATGTTTTCAGAGGGGCGGCTACAGCCACGCGGAGAGT 421  
 Db 422 TCGAAGTGGTCAAGCTATGTTTTCAGAGGGGCGGCTACAGCCACGCGGAGAGT 481  
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 Db 542 TGGGCTGTGGGCGGACCTGTGCTGTGAGGCCAGCAGCAGATAGAGCCTTTGTGTG 601  
 QY 542 CCTACTCCCCGGGAGGCACTGGGAGGTCAACGGGAAACATCATCCCTATTAAGAGG 601  
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 QY 602 GTGCTGTGTGTCTCTGCAACGAGCTGTCTCAGGCTGTCTCAAGGCTGGGACCATG 661  
 Db 662 GTGCTGTGTGTCTCTGCAACGAGCTGTCTCAGGCTGTCTCAAGGCTGGGACCATG 721  
 QY 662 CAGGGGGGCTGTGTGAGGTCCCCAGGATCCTT-GTCGATGAGTGGCAG-AACCATG 719  
 Db 722 CAGGGGGGCTGTGTGAGGTCCCCAGGATCCTTGTGTCGATGAGTGGCAGAAACCATG 781



Qy 747 CCACTGTCCCCCTGGCTACAC-GGGCAGATACTGCCAAGTGAGG 789

4

\_\_\_\_\_

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QY 301 TGGCGACCCCTGCAAGTGGGCTGGAACATGCAGCTGTGCCCCGGGGCTTGGGCTCCTTT 360
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QY 361 GTTGAAGTGGTCAAGCTATGTTTTCAGAGGGGCGAGGTTACAGCCACGCGGAGGAGAG 420
|||||
Db 409 GTTGAAGTGGTCAAGCTATGTTTTCAGAGGGGCGAGGTTACAGCCACGCGGAGGAGAG 468
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QY 421 TGTGCTCGCAAGCCACCTGCACCCACTACACGACCTCGTGTGGGCCACCTCAAGCCAG 480
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Db 469 TGTGCTCGCAAGCCACCTGCACCCACTACATGACGCTGTGTGGGCCACCTCAAGCCAG 528
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QY 481 CTGGGCTGTGGGCGCACCTGTGCTCTGCAGGCGACAGCGATAGAACCTTTGTCTGT 540
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Db 529 CTGGGCTGTGGGCGCACCTGTGCTCTGCAGGCGACGCGATAGAACCTTTGTCTGT 588
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QY 541 GCCTACTCCCCGGGAGGCAACTGGGAGGTCAACGGGAAGACAATATCCCTATAAGAG 600
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Db 589 GCCTACTCCCCAGAGGCAACTGGGAGGTCAACGGGAAGACAATATCCCTATAAGAG 648
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QY 601 GTGCTGTGTTGCTGCTCTGCAGGCGACAGCGAGTGTCTCAGGCTGTCAAGAGCTGGACCA - 659
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Db 649 GTGCTGTGTTGCTGCTCTGCAGGCGACAGCGAGTGTCTCAGGCTGTCAAGAGCTGGACCA 708
|||||
QY 660 --TGCAGGGGGGCTGTGCTGAGGTCCCGAGGAATCCTT 694
|||||
Db 709 TGCAGGGGGGCTGTGCTGAGGTCCCGAGGAATCCTT 745
|||||

RESULT 7
BM695392
LOCUS
DEFINITION
  UI-E-CQ1-aev-n-19-0-UI-r1 UI-E-CQ1 Homo sapiens cDNA clone
  UI-E-CQ1-aev-n-19-0-UI 5', mRNA sequence.
ACCESSION
  BM695392
VERSION
  BM695392.1 GI:19008650
KEYWORDS
  EST.
SOURCE
  human.
ORGANISM
  Homo sapiens
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
  1 (bases 1 to 645)
AUTHORS
  Ronaldo,M.F., Lennon,G. and Soares,M.B.
TITLE
  Normalization and subtraction: two approaches to facilitate gene
  discovery
JOURNAL
  Genome Res. 6 (9), 791-806 (1996)
MEDLINE
  9704477
COMMENT
  Contact: Soares, MB
  Program for Rat Gene Discovery and Mapping
  University of Iowa
  451 Eckstein Medical Research Building Iowa City, IA 52242, USA
  Tel: 319 335 8250
  Fax: 319 335 9565
  Email: mssoares@blue.weeg.uiowa.edu
  CDNA Library prepared by: Dr. M. Bento Soares, University of Iowa
  CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
  CDNA Sequencing by: Dr. M. Bento Soares, University of Iowa
  Clone Distribution: Researchers may obtain clones from Research
  Genetics (www.resgen.com).
  Seq primer: M13 Reverse.
  Location/Qualifiers
    1..645
      /organism="Homo sapiens"
      /db_xref="taxon:9606"
      /clone="UI-E-CQ1-aev-n-19-0-UI"
      /clone_lib="UI-E-CQ1"
      /tissue_type="optic nerve"
      /dev_stage="adult"
      /lab_host="DH10B (Life Technologies) (T1 phage resistant)"
      /note="Organ: eye; Vector: pT73-Pac (Pharmacia) with a
      modified polylinker; Site_1: EcoR I; Site_2: Not I;
```

UI-E-CQ1 is a normalized cDNA library containing the following tissue(s): optic nerve. The library was constructed according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pT73-Pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is CCATTAAGTG. This library was created for the program, Gene Discovery in the Visual System, supported by National Eye Institute (NEI)."

BASE COUNT 136 a 187 c 196 g 126 t  
ORIGIN

Query Match 46.9%; Score 622.2; DB 14; Length 645;  
Best Local Similarity 99.5%; Pred. No. 8.5e-130;

Matches 624; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 590 CCTATAAGAAAGGGTCCCTGGTTCGCTTCGCACAGCCAGTGTCTCAGGCTGTTCAAAG 649

Db 1 CCTATAAGAAAGGGTCCCTGGTTCGCTTCGCACAGCCAGTGTCTCAGGCTGTTCAAAG 60

QY 650 CCTGGGACCATGTCAGGGGGGCTCTGTGAGTCCCGAGGAATCCTTGTCCGATCAGCTGCC 709

Db 61 CCTGGGACCATGTCAGGGGGGCTCTGTGAGTCCCGAGGAATCCTTGTCCGATCAGCTGCC 120

QY 710 AGAACCATGAGCGTCTCAACATCAGCACCTGCCACTTCCCTGCTCCCTGGCTACACGG 769

Db 121 AGAACCATGAGCGTCTCAACATCAGCACCTGCCACTTCCCTGCTCCCTGGCTACACGG 180

QY 770 GCATATCTGCAAGTGTGAGTGCACCTGTCAGTGTGTCACGGCGGTTCCGGGAGGAGG 829

Db 181 GCATATCTGCAAGTGTGAGTGCACCTGTCAGTGTGTCACGGCGGTTCCGGGAGGAGG 240

QY 830 AGTGTCTGTGCTGTGTGACATCGGCTACGGGGGAGCCAGTGTGCCACCAAGTGCATT 889

Db 241 AGTGTCTGTGCTGTGTGACATCGGCTACGGGGGAGCCAGTGTGCCACCAAGTGCATT 300

QY 890 TTCCCTTCCACACCTGTGACCTGAGGATCGACGAGAGTGTTCATGTGTCTTCAGAGG 949

Db 301 TTCCCTTCCACACCTGTGACCTGAGGATCGACGAGAGTGTTCATGTGTCTTCAGAGG 360

QY 950 CAGACACTATTACAGAGCCAGGATGAATGTCAGAGGAAAGCGGGGTGCTGGCCCCAGA 1009

Db 361 CAGACACTATTACAGAGCCAGGATGAATGTCAGAGGAAAGCGGGGTGCTGGCCCCAGA 420

QY 1010 TCAAGAGCCAGAAAGTGCAGGACATCCTCGCCTTCTATCTGGCGCGCTGGAGACCACCA 1069

Db 421 TCAAGAGCCAGAAAGTGCAGGACATCCTCGCCTTCTATCTGGCGCGCTGGAGACCACCA 480

QY 1070 ACGAGGTGACTGACAGTGTTCGAGACACGAGAACTTCTGGATCGGGCTTCACCTACAAGA 1129

Db 481 ACGAGGTGATTGACAGTGTTCGAGACACGAGAACTTCTGGATCGGGCTTCACCTACAAGA 540

QY 1130 CCGCCAGGACTCCTTCGCTGGGCCACAGGGGAGCACCAGGCCCTTCACAGTTTGCCT 1189

Db 541 CCGCCAGGACTCCTTCGCTGGGCCACAGGGGAGCACCAGGCCCTTCACAGTTTGCCT 600

QY 1190 TTGGGCAGCCTGCACAAACCACCGGCTGG 1216

Db 601 TTGGGCAGCCTGCACAAACCACCGGCTGG 627

FEATURES  
source

RESULT 8  
AL040183

LOCUS

DEFINITION

ACCESSION

VERSION

AL040183 704 bp mRNA linear EST 29-FEB-2000  
DKEZP434F2413\_r1 434 (synonym: htes3) Homo sapiens cDNA clone  
DKEZP434F2413\_5', mRNA sequence.  
AL040183  
AL040183.1 GI:5409148



Db 230 CTGTGACCCGCTGGCGAGAGTGTGGCCACCCACCCAGCTGACGAGCAGGCTCCGATGGCC 289  
 Qy 121 GGAGCCCTGAACAGGAGAGAGTTCCTTGTCTCCCTCCCTGCACAAACCGCTGCCACG 180  
 Db 290 GGAGCCCTGAACAGGAGAGAGTTCCTTGTCTCCCTCCCTGCACAAACCGCTGCCACG 349  
 Qy 181 TGGGTCCAGCCCTGGCGCTGACATGCGGAGCTGGAGTGACAGCCCTGGCCCAA 240  
 Db 350 TGGGTCCAGCCCTGGCGCTGACATGCGGAGCTGGAGTGACAGCCCTGGCCCAA 409  
 Qy 241 CTGGCTCAAGCGAGGAGCCCTGTGTGGATCCCAACCCCGAGCTGGCATCGGCGCTG 300  
 Db 410 CTGGCTCAAGCCA-GGCGAGCCCTGTGTGGATCCCAACCCCGAGCTGGCGTCCGCGCTG 468  
 Qy 301 TGGCGCACCCCTGCAAGTGGGTGGAACATGACAGCTGCTGCCCGGGCTTGGCGTCCCTTT 360  
 Db 469 TGGCGCACCCCTGCAAGTGGGTGGAACATGACAGCTGCTGCCCGGGCTTGGCGTCCCTTT 528  
 Qy 361 GTTGAAGTGTGACCCCTATGTTTGCAGAGGGGAGCGGTACAGCCAGCGGCGAGAGAG 420  
 Db 529 GTGGAAGTGTGACCCCTATGTTTGCAGAGGGGAGCGGTACAGCCAGCGGCGAGAGAG 588  
 Qy 421 TGTGCTCGCAAGCGACCTGACACCACTACACGAGCTGCTGGCGCACCTCAAGCCAG 480  
 Db 589 TGTGCTCGCAAGCGACCTGACACCACTACACGAGCTGCTGGCGCACCTCAAGCCAG 648  
 Qy 481 CTGGGCTGTGGGGGCGACCTGTGCTCTGCAGGCGAGAGCGGTACAGCCCTTTGCTGT 540  
 Db 649 CTGGGCTGTGGGGGCGACCTGTGCTCTGCAGGCGAGGAGCGGTACAGCCCTTTGCTGT 708  
 Qy 541 G 541  
 Db 709 G 709  
  
 RESULT 10  
 Bi759353  
 LOCUS 603043013F1 NIH\_MGC\_116 Homo sapiens cDNA clone IMAGE:5183330 5',  
 DEFINITION mRNA sequence.  
 ACCESSION Bi759353  
 VERSION Bi759353.1 GI:15750931  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 NIH-MGC http://mgi.nci.nih.gov/  
 National Institutes of Health, Mammalian Gene Collection (MGC)  
 Unpublished (1999)  
 Contact: Robert Strausberg, Ph.D.  
 Email: cgaabs@mail.nih.gov  
 Tissue Procurement: Life Technologies, Inc.  
 cDNA Library Preparation: Life Technologies, Inc.  
 cDNA Library Arrayed by: the I.M.A.G.E. Consortium (LNL)  
 DNA Sequencing by: Incyte Genomics, Inc.  
 Clone distribution: MGC clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LNL at:  
 http://image.llnl.gov  
 Plate: LLAM11457 row: j column: 03  
 High quality sequence stop: 723.  
 Location/Qualifiers  
 1..916  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:5183330"  
 /clone\_lib="NIH\_MGC\_116"  
 /lab\_host="DH10B"  
 /note="organ: pooled colon, kidney, stomach; Vector:  
 PCMV-SPO16; Site\_1: NotI; Site\_2: EcoRV (destroyed); RNA  
 source anonymous pool of 3 colons, age 26 yo male, 49 yo  
 female, 71 yo male colon; 46 yo male kidney, and pool of 2

stomachs, 62 yo male and 70 yo female. Library is  
 oligo-dT primed and directionally cloned (EcoRV site is  
 destroyed upon cloning). Average insert size 1.4 kb,  
 insert size range 1-3 kb. Library is normalized and  
 enriched for full-length clones and was constructed by C.  
 Gruber (Invitrogen). Research Genetics tracking code  
 023. Note: this is a NIH\_MGC Library.  
 BASE COUNT 153 a 306 c 278 g 178 t 1 others  
 ORIGIN

Query Match 36.9%; Score 489.8; DB 13; Length 916;  
 Best Local Similarity 90.5%; Pred. No. 6.5e-100;  
 Matches 701; Conservative 0; Mismatches 57; Indels 17; Gaps 16;  
  
 Qy 1 ATGCTGATCCAGAGACCTCCCTGGCCGGGGGATCTCTG- GCTGTGCTCTGGCCCT 59  
 Db 143 ATGCTGATCCAGAGACCTCCCTGGCCGGGGGATCTCTGAGCTGTGCTCTGGCCCT 202  
  
 Qy 60 CCTTG-GCACCACCTGGGAGAGGTGGCCACC-CCAGCTGCA-GGAGCAGGCTCCGAT 116  
 Db 203 CCTTGTGCACCACCTGGGAGAGGTGGCCACCACCAGCTGCAATGGAGCAGGCTCCGAT 262  
  
 Qy 117 GCGCGAGCCCTGAACAGAGAGAGATTTCTTGTCTCTCTCCCTGCACAAACCGCTG-C 175  
 Db 263 GCGCGAGCCCTGAACAGAGAGAGATTTCTTGTCTCTCTCCCTGCACAAACCGCTGTC 322  
  
 Qy 176 GCAGCTGGGTCCAGCCCCCTTCGCG-CTGACATGGGAGGCTGGACTGGAGTGACA-GGCT 233  
 Db 323 GCAGCTGGGTTCAGCCCCCTTCGCGTCTGACATGGGAGGCTGGACTGGAGTGACATGCT 382  
  
 Qy 234 GGGCAACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCCGAGCTGGCATC 293  
 Db 383 GGGCAACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCCGAGCTGGCATC 442  
  
 Qy 294 CGGCTGTGGCGACCCCTGCAAGTGGGCTGGAACA-TGCAGCTGCTGCCCGGGGCTTG 352  
 Db 443 CGGCTGTGGCGACCCCTGCAAGTGGGCTGGAACATTTGCAGCTGCTGCCCGGGGCTTG 502  
  
 Qy 353 CGTCTCTTGTGAAGGTGCAGCCTATGTTTGCAGAGGGG--CAGCGGTACAGCCAGC 410  
 Db 503 CGTCTTGTGAAGGTGCAGCCTATGTTTGCAGAGGGGCGATGCGGTACAGCCAGC 562  
  
 Qy 411 GCAGGAGA-GTGTGCTGC-AACGCCACCTGCACCACTACACGAGCTGCTGTGGGCC 468  
 Db 563 GCAGGAGATGTGTGCTCAAAAGCCAGCTGGACCCACTACACGAGCTGCTGTGGGCC 622  
  
 Qy 469 ACCTCAAGCCAGCTGGGCTGTGGCGGACCC- TGTGCTGTGAGGCCAGACAGCGATAGA 527  
 Db 623 A-CTCAAGCCAGCTGGGCTGTGGCGGACCCCTTGTGCTGTGAGGCCAGACAGCGATAGA 681  
  
 Qy 528 AGCCTTTGTGCTGCTACTCTCCCGAGGCAACTGGAGGTCAACGGGAAGACAATCAT 587  
 Db 682 AGCCTTTGTGCTGCTACTCTCCCGAGGCAACTGGAGGTCAACGGGAAGACAATCAT 741  
  
 Qy 588 CCCCTATAAGAGGTGCTGTGTTCGCTC-TGCACAGCCAGTGTCTCAGGCTGTCTTCA 646  
 Db 742 CCCCTATAAGAGGTGCTGTGTTCGCTC-TGTGACAGCCAGTGTCTCAGGCTGTCTTCA 800  
  
 Qy 647 AAGCCTGGGACCATCGAGGGGCTGTGTGAGTCCCCAGGAATCCTTGTGCGATGAGCT 706  
 Db 801 AAGCCTGGGACCATCGAGGGGCTGTGTGAGTCCCCAGGAATCCTTGTGCGATGAGCT 860  
  
 Qy 707 GCCAGACCA-TGGACGTCTCAACATCAGCACTGCCACTGCCACTGCTCCCCCTG 760  
 Db 861 GCCAGACCA-TGGACGTCTCAACATCAGCACTGCCACTGCCACTGCTCCCCCTG 915

RESULT 11  
 Bi762690  
 LOCUS 603048444F1 NIH\_MGC\_116 Homo sapiens cDNA clone IMAGE:5188643 5',  
 DEFINITION mRNA sequence.  
 ACCESSION Bi762690

Bi762690 852 bp mRNA linear EST 25-SEP-2001  
 DEFINITION 603048444F1 NIH\_MGC\_116 Homo sapiens cDNA clone IMAGE:5188643 5',  
 mRNA sequence.  
 ACCESSION Bi762690

FEATURES  
 source



VERSION  
KEYWORDS  
SOURCE

BT762690.1 GI:15754256  
EST.  
human.

ORGANISM

Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

1 (bases 1 to 852)  
NIH-MGC <http://mgc.nci.nih.gov/>.  
National Institutes of Health, Mammalian Gene Collection (MGC)  
Unpublished (1999)

TITLE

CDNA Library Preparation: Life Technologies, Inc.  
DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)  
Clone Distribution by: Incyte Genomics, Inc.

JOURNAL

found through the I.M.A.G.E. Consortium/LLNL at:  
<http://image.llnl.gov>

COMMENT

Contact: Robert Strausberg, Ph.D.  
Email: cgabs-r@mail.nih.gov  
Tissue Procurement: Life Technologies, Inc.  
CDNA Library Preparation: Life Technologies, Inc.  
DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)  
Clone Distribution by: Incyte Genomics, Inc.  
found through the I.M.A.G.E. Consortium/LLNL at:  
Plate: LLML1471 row: g column: 12  
High quality sequence stop: 849.

FEATURES

source

1..852  
Location/Qualifiers

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone="IMAGE:518843"

/clone\_lib="NIH\_MGC\_116"

/lab\_host="DH10B"

/note="Organ: pooled colon, kidney, stomach; Vector:  
pCMV-SPORT6; Site:1: NotI; Site:2: EcoRV (destroyed); RNA  
source anonymous pool of 3 colons, age 26 yo male, 49 yo  
female, 71 yo male colon; 46 yo male kidney, and pool of 2  
stomachs, 62 yo male and 70 yo female. Library is  
oligo-dT primed and directionally cloned (EcoRV site is  
destroyed upon cloning). Average insert size 1.4 kb,  
insert size range 1-3 kb. Library is normalized and  
enriched for full-length clones and was constructed by C.  
Gruber (Invitrogen). Research Genetics tracking code  
023. Note: this is a NIH-MGC Library."

BASE COUNT

146 a 283 c 269 g 154 t

ORIGIN

Query Match 35.5%; Score 470.2; DB 13; Length 852;  
Best Local Similarity 95.6%; Pred. No. 1.6e-95;  
Matches 559; Conservative 0; Mismatches 18; Indels 8; Gaps 7;

Qy 1 ATGCTGATCAGAGACCTCCCTGGCCGGGGGCACTCTCTGCTGTGTCTCTCTGGCCCTC 60

Db 258 ATGCTGATCAGAGACCTCCCTGGCCGGGGGCACTCTCTGCTGTGTCTCTCTGGCCCTC 317

Qy 61 CTTGGCACCACTGGGCAGAGTGTGGCCACCCAGCTGCAGAGCAGGCTCCGATGGCC 120

Db 318 CTTGGCACCACTGGGCAGAGTGTGGCCACCCAGCTGCAGAGCAGGCTCCGATGGCC 377

Qy 121 GGAGCCCTGAACAGGAAGAGAGTTCTTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 180

Db 378 GGAGCCCTGAACAGGAAGAGAGTTCTTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 437

Qy 181 TGGGTCCAGCCCTGGCGCTGACATGGGAGGCTGGAGTGGAGTACAGCCTTGGCCCAA 240

Db 438 TGGGTCCAGCCCTGGCGCTGACATGGGAGGCTGGAGTGGAGTACAGCCTTGGCCCAA 496

Qy 241 CTGGCTCAAGCAGGCGACCTCTGTGGAAATCCCAACCCAGCCTGCATCCGCGCTG 300

Db 497 CTGGCTCAAGCAGGCGACCTCTGTGGAAATCCCAACCCAGCCTGCATCCGCGCTG 555

Qy 301 TGGGCGACCTTGAAGTGGGTGGAACATGACGCTG-CTGCCCGGGGCTTGGCGCTCT 359

Db 556 TGGGCGACCTTGAAGTGGGTGGAACATGACGCTG-CTGCCCGGGGCTTGGCGCTCT 615

Qy 360 TGTGAAGT-GGTGAGCTATGGTTTGAGAGGGCAGCGGTACAGCCACGGG-CAGGA 417

Db 616 GGTGAAGTGGGTGAGCTATGGTTTGAGAGGGCAGCGGTACAGCCACGGGCGCAGGA 675

Qy

418 GAGTGTGCTCGCAACGCCACCTGCACCCACTACA-CGCAGCTCGTGTGGCCACCTCAAG 476  
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Db 676 GAGTGTGCTCGCAACGCCACCTGCACCCACTACA-CGCAGCTCGTGTGGCCACCTCAAG 735  
|||||

Qy

477 CCAGCTGGGCTGTGGGGGGCACCT--CTGCTCTCAGAGCCAGACGATAGAGCCCTTT 534  
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Db 736 CCAGCTGGGCTGTGGGGGGCACCTGTGCTCTCAGAGCCAGGAGCGGATAGAGCCCTTT 795  
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Qy

535 GTCTGTGCTTACTCCCGGAGGCACTGGGAGGTCAACGGGAAG 579  
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Db 796 GTCTGTGCTTACTCCCGGAGGCACTGGGAGGTCAACGGGAAG 840  
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RESULT 12

A1792411

LOCUS

DEFINITION

INHIBITOR. ; mRNA sequence.

ACCESSION

A1792411

KEYWORDS

SOURCE

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

1 (bases 1 to 463)

AUTHORS

TITLE

JOURNAL

COMMENT

Contact: Robert Strausberg, Ph.D.  
Email: cgabs-r@mail.nih.gov  
This clone is available royalty-free through LLNL; contact the  
IMAGE Consortium ([image.llnl.gov](http://image.llnl.gov)) for further information.  
This read is a RESEQUENCE of a previously sequenced human clone  
Original clone citation: see original entry for original citation  
information  
This 5' resequenced clone has no previous 5' data to verify this  
new read against  
Seq primer: -40RP from Gibco  
High quality sequence stop: 429.

FEATURES

source

1..463

Location/Qualifiers

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone="IMAGE:1700537"

/clone\_lib="Gessler Wilms tumor"

/sex="pooled (6)"

/lab\_host="DH10B"

/note="Vector: pSPORT1; Site:1: SalI; Site:2: NotI; RNA  
was prepared from a pool of 6 anonymous Wilms' tumor RNAs.  
RNA was prepared by acid-phenol, followed by one round of  
oligo dT selection. CDNA library preparation was with  
the BRL/Life Tech. Superscript Plasmid system. An  
oligo-dT NotI primer for first strand synthesis generated  
gcggccccc(t)n at the 3' end of the clones. A 5' SalI  
adaptor was used with sequence 5'-gtcagccagcgtccg-3'.  
Resulting cDNAs were size selected (average size 2 kb).  
NotI digested, and ligated into NotI/SalI-cut pSPORT1.  
Library was constructed by Dr. Manfred Gessler."

BASE COUNT

80 a 163 c 143 g 77 t

ORIGIN

Query Match 25.3%; Score 335.4; DB 9; Length 463;

Best Local Similarity 99.7%; Pred. No. 3e-65;

Matches 336; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 127 ATGCTGATCAGAGACCTCCCTGGCGGGGGGCACTCTCTGCTGTGCTCTCTGCTCTC 60

Db 127 ATGCTGATCAGAGACCTCCCTGGCGGGGGGCACTCTCTGCTGTGCTCTCTGCTCTC 186

QY 61 CTTGGCACCACCTGGGCGAGAGGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCC 120  
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 Db 187 CTTGGCACCACCTGGGCGAGAGGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCC 246  
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 QY 121 GGAGCCCTGAACAGGAGGAGGACTTTCTGCTCCTCTCCCTGCACAAACCGCTCGCGAGC 180  
 |||||  
 Db 247 GGAGCCCTGAACAGGAGGAGGAGTTCCTGCTCCTCTCCCTGCACAAACCGCTCGCGAGC 306  
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 QY 181 TGCGTCCAGCCCTCGGCTGCATCGCGAGGCTGGAGTGGAGTGCAGAGCTGGCCCAA 240  
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 Db 307 TGCGTCCAGCCCTCGGCTGCATCGCGAGGCTGGAGTGGAGTGCAGAGCTGGCCCAA 366  
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 QY 241 CTGGCTCAGCCAGGAGGAGCCCTCTGTGGATCCCAACCCGAGCTGGCATCGGCTG 300  
 |||||  
 Db 367 CTGGCTCAGCCAGGAGGAGCCCTCTGTGGATCCCAACCCGAGCTGGCATCGGCTG 426  
 |||||  
 QY 301 TGCGGACCCCTGCAAGTGGGCTGGAACATGCAGCTGC 460  
 |||||  
 Db 427 TGCGGACCCCTGCAAGTGGGCTGGAACATGCAGCTGC 463  
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 RESULT 13  
 Bf198258 429 bp mRNA linear EST 03-NOV-2000  
 LOCUS 248012 MARCH 2P1G Sus scrofa cDNA 5', mRNA sequence.  
 DEFINITION Bf198258  
 ACCESSION Bf198258.1 GI:11089145  
 VERSION EST.  
 KEYWORDS  
 SOURCE pig.  
 ORGANISM Sus scrofa  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.  
 1 (bases 1 to 429)  
 Fahrrenkrug, S.C., Freking, B.A., Rohrer, G.A., Smith, T.P.L., Casas, E.,  
 Stone, R.T., Heaton, M.P., Grosse, W.M., Bennett, G.A., Laegreid, W.W.  
 and Keeler, J.W.  
 Design and use of two pooled tissue normalized cDNA libraries for  
 EST discovery in swine  
 Unpublished (2000)  
 Contact: Smith TPL  
 USDA, ARS, US Meat Animal Research Center  
 PO Box 166, Clay Center, NE 68933-0166, USA  
 Tel: 402 762 4366  
 Fax: 402 762 4390  
 Email: smithemail@marc.usda.gov  
 Single pass sequencing. Bases called and alt trimmed with phred  
 v0.980904.e. Vector identified by cross\_match with the -minscore 18  
 and -minmatch 12 options.  
 PCR Primers  
 FORWARD: AGGAAACAGCTATGACCAT  
 BACKWARD: GTTTCCTCCCTCAGCAGG  
 Plate: 78 row: B column: 9  
 Seq primer: ATTAGGTGACACTATAG.  
 Location/Qualifiers  
 1..429  
 /organism="Sus scrofa"  
 /db\_xref="taxon:9823"  
 /clone\_lib="MARCH 2P1G"  
 /tissue\_type="pooled"  
 /lab\_host="DH10B"  
 /note="Vector: pCMV SPORT6; Site\_1: NotI; Site\_2: SalI;  
 Library made from pooled tissue from testis, ovary,  
 endometrium, hypothalamus, pituitary, and placenta."  
 BASE COUNT 97 a 125 c 122 g 85 t  
 ORIGIN  
 Query Match 23.6%; Score 313.4; DB 12; Length 429;  
 Best Local Similarity 84.8%; Pred. NO. 2.6e-60;  
 Matches 386; Conservative 0; Mismatches 41; Indels 28; Gaps 2;  
 QY 838 TCGGCTCTGACATCGGCTACGGGAGGCCAGTGTGCCACCAAGGTGCTTCCCTTC 897  
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 Db 2 TCGCTCTGTGATCTGCTATGGGGAGGCCAGTGTGCCACCAAGGTGCTTCCCTTC 61  
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QY 898 CACACCTGTGACCTGAGGATGACGGAGAGTCTTTCATGCTGTCTTCAGAGGCGAGACACC 957  
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 Db 62 CACACCTGTGACCTGAGGATGACGGAG-ACTGCTTGTGCTGCTCGGCGAGACACACC 120  
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 QY 958 TATTACAGAGCCAGGATGAAATGTTCAGAGAAAGGGGGTGTGCTGGCCAGATCAGAGC 1017  
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 Db 121 TATTACGGAGCCAAATATGAAATGCCAGGAAAGGGGGTGTGCTGGCCAGATGAGAGC 180  
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 QY 1018 CAGAAAGTCAGAGACATCTCGCTTCTATCTCTGGCGCCTGGAGACCAACAGAGGTG 1077  
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 Db 181 CAGAAAGTCAGAGACATCTCGCTTCTATCTGGCGCCTAGAGACCAACAGAGGTG 240  
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 QY 1078 ACTGACAGTGACTTTCAGAGACCAAGAACTTCTGGATCGGGTCTACCTACAGAGCCGCAAG 1137  
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 Db 241 ACCGACAGTGACTTTCAGAGACCAAGAACTTATGATCGGGTCTACCTACAGAGCTCTAAG 300  
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 QY 1138 GACTCCTTCGCTGGGCGCACAGGAGGAGCCAGGCTTCCAGGTTTGGCTTTGGCGAG 1197  
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 Db 301 GACTCCTTCGCTGGGCGCACAGGAGGAGCCAGGCTTCCAGGTTTGGCGAG 360  
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 QY 1198 CCTGCAACACCGGCTGGTGTGCTGAGTGTGCCATGGGGTTGGCACTGGTGGAG 1257  
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 Db 361 CCTGCAACCA-----GGCCTTGGCACTGTGTGGAG 393  
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 QY 1258 CTGACGGCTTCAGCTGCTTCAACTGGACGACCA 1292  
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 Db 394 CTGACGGCTTCGCGCGCTTCAACTGGATGATCA 428  
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 RESULT 14  
 Bf1761101 500 bp mRNA linear EST 25-SEP-2001  
 LOCUS 603043573F1 NIH\_MGC\_116 Homo sapiens cDNA clone IMAGE:5183898 5',  
 mRNA sequence.  
 DEFINITION Bf1761101  
 ACCESSION Bf1761101.1 GI:15752679  
 VERSION EST.  
 KEYWORDS  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 1 (bases 1 to 500)  
 NIH-MGC http://mgs.nci.nih.gov/  
 National Institutes of Health, Mammalian Gene Collection (MGC)  
 Unpublished (1999)  
 Contact: Robert Strausberg, Ph.D.  
 Email: cgabbs@mail.nih.gov  
 Tissue Procurement: Life Technologies, Inc.  
 cDNA Library Preparation: Life Technologies, Inc.  
 DNA sequencing by: The I.M.A.G.E. Consortium (LLNL)  
 Clone distribution: MGC clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
 http://image.llnl.gov  
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 female, 71 yo male colon; 46 yo male kidney, and pool of 2  
 stomachs, 62 yo male and 70 yo female. Library is  
 oligo-dT primed and directionally cloned (EcoRV site is  
 destroyed upon cloning). Average insert size 1.4 kb,  
 insert size range 1-3 kb. Library is normalized and  
 enriched for full-length clones and was constructed by C.

FEATURES  
 source





GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: December 28, 2002, 15:41:47 ; Search time 3382.86 Seconds  
(without alignments)  
11407.612 Million cell updates/sec

Title: US-09-944-896-49\_COPY\_123\_1448

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Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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- 3: gb\_in.\*
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- 6: gb\_pat.\*
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- 9: gb\_pr.\*
- 10: gb\_ro.\*
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- 13: gb\_vt.\*
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- 41: em\_mu.\*

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

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| 2          | 1254  | 94.6          | 1775   | 6  | AX191503   | Sequence           |
| 3          | 862.8 | 65.1          | 3293   | 9  | HSR04652   | Sequence           |
| 4          | 672.8 | 50.7          | 690    | 6  | AX366554   | Sequence           |
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ALIGNMENTS

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DEFINITION  
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VERSION  
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ORGANISM  
REFERENCE  
AUTHORS  
TITLE

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GI:15209675  
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Homo sapiens  
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 1341)  
Kato, S. and Kimura, T.  
Human proteins having hydrophobic domains and dnas encoding these  
proteins

1341 bp  
DNA  
linear  
PAT 15-AUG-2001

Pred. No. is the number of results predicted by chance to have a

JOURNAL Patent: WO 0149728-A 15 12-JUL-2001;  
Protegene Inc. (JP) ; SAGAMI CHEMICAL RESEARCH CENTER (JP)  
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VERSION AX191503.1 GI:15209689  
KEYWORDS human.  
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.  
REFERENCE 1 (bases 1 to 1775)  
AUTHORS Kato, S. and Kimura, T.  
TITLE Human proteins having hydrophobic domains and dnas encoding these proteins  
JOURNAL Patent: WO 0149728-A 25 12-JUL-2001;  
Protegene Inc. (JP) ; SAGAMI CHEMICAL RESEARCH CENTER (JP)  
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| VERSION AL833339.1 GI:21733974   |      |  |      |
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| ORGANISM   |      |  |      |
| Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  |      |  |      |
| Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.   |      |  |      |
| REFERENCE 1 (bases 1 to 3293)  |      |  |      |
| AUTHORS Ottenwälder,B., Obermaier,B., Mewes,H.W., Weil,B., Amid,C. and Wiemann,S.  |      |  |      |
| TITLE Direct Submission  |      |  |      |
| JOURNAL Submitted (09-JUL-2002) 1, D-85764 Neuherberg, GERMANY   |      |  |      |
| COMMENT Clone from S. Wiemann, Molecular Genome Analysis, German Cancer Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de; sequenced by Medigenomix (Martinsried/Germany) within the cDNA sequencing consortium of the German Genome Project. This clone (DKFzp686E1934) is available at the RZPD in Berlin. Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059 Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de Further information about the clone and the sequencing project is available at http://mips.gsf.de/proj/cDNA/. |      |  |      |
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| Query Match 65.1%; Score 862.8; DB 9; Length 3293;   |      |  |      |
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| Db   | 194  | ATGTGTCATCCAGACACCTCCCTTGGCCGGGGGCATCTCTTGCTGTGCTTCCTTGCCCTC | 253  |
| Qy   | 61   | CTTGGCACCACTTGGGCAGAGTGTGGCCACCCACCTGCAGGAGGAGGCTCCGATGGCC   | 120  |
| Db   | 254  | CTTGGCACCGCTTGGGCAGAGTGTGGCCACCCACCTGCAGGAGGAGGCTCCGATGGCC   | 313  |
| Qy   | 121  | GGAGCCCTGACAGGAAGGAGTTTCTTGCTCTCTCTCTGCAACACCGCTTGGCAGC      | 180  |

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|   |              |  |                     |           |             |                 |  |  |  |
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| /organism="Homo sapiens"<br>/db_xref="taxon:9606" |              |  |                     |           |             |                 |  |  |  |
| BASE COUNT  | 148 a        | 197 c  | 212 g               | 131 t     | 2 others    |                 |  |  |  |
| ORIGIN  |              |  |                     |           |             |                 |  |  |  |
| Query Match                                       |              | 50.7%;   | Score 672.8;        | DB 6;     | Length 690; |                 |  |  |  |
| Best Local Similarity                             |              | 99.3%;   | Pred. No. 2.7e-129; |           |             |                 |  |  |  |
| Matches 685;                                      | Conservative | 0;   | Mismatches 4;       | Indels 1; | Gaps 1;     |                 |  |  |  |
| QY  | 482          | TGGGCTGTGGGGCGCACCTGTGCTCTGCAGGCCAGACAGGATAGAAAGCCTTTGCTCTG  | 541                 |           |             |                 |  |  |  |
| Db  | 1            | TGGGCTGTGGGGCGCACCTGTGCTCTGCAGGCCAGACAGGATAGAAAGCCTTTGCTCTG  | 60                  |           |             |                 |  |  |  |
| QY  | 542          | CCTACTCCCCCGAGGCACTGGAGGTCAACGGGAAGACAATCATCCCCATAAAGAGG   | 601                 |           |             |                 |  |  |  |
| Db  | 61           | CCTACTCCCCCGAGGCACTGGAGGTCAACGGGAAGACAATCATCCCCATAAAGAGG   | 120                 |           |             |                 |  |  |  |
| QY  | 602          | GTGCTGTGTTTGGCTCTGCACAGCCAGTGTCTCAGGCTGCTTCAAGCCCTGGACCATG   | 661                 |           |             |                 |  |  |  |
| Db  | 121          | GTGCTGTGTTTGGCTCTGCACAGCCAGTGTCTCAGGCTGCTTCAAGCCCTGGACCATG   | 180                 |           |             |                 |  |  |  |
| QY  | 662          | CAGGGGGCTCTGTGAGGTCCCGAGGAATCTTGTGCGATGAGTGCACGAACCATGGAC  | 721                 |           |             |                 |  |  |  |
| Db  | 181          | CAGGGGGCTCTGTGAGGTCCCGAGGAATCTTGTGCGATGAGTGCACGAACCATGGAC  | 240                 |           |             |                 |  |  |  |
| QY  | 722          | GTCTCAACATCAGCACCTGCCACTGCCACTGTCCCCCTGGCTACACGGGCGAGTACTGCC   | 781                 |           |             |                 |  |  |  |
| Db  | 241          | GTCTCAACATCAGCACCTGCCACTGCCACTGTCCCCCTGGCTACACGGGCGAGTACTGCC   | 300                 |           |             |                 |  |  |  |
| QY  | 782          | AAGTGAGGTGAGCCTTCAGTGTGTGCACGGCGGTTCGGGAGGAGGAGTGCCTGCTGCG   | 841                 |           |             |                 |  |  |  |
| Db  | 301          | AAGTGAGGTGAGCCTTCAGTGTGTGCACGGCGGTTCGGGAGGAGGAGTGCCTGCTGCG   | 360                 |           |             |                 |  |  |  |
| QY  | 842          | TCTGTGACATCGGTACGGGGAGCCCCAGTGTGCCACCAAGGTGCATTTCCCTTCCACA   | 901                 |           |             |                 |  |  |  |
| Db  | 361          | TCTGTGACATCGGTACGGGGAGCCCCAGTGTGCCACCAAGGTGCATTTCCCTTCCACA   | 420                 |           |             |                 |  |  |  |
| QY  | 902          | CCTGTGACCTGAGGATCAGCGAGACTGCTTCATGCTGTCTTCAGAGGACAGACCTATT   | 961                 |           |             |                 |  |  |  |
| Db  | 421          | CCTGTGACCTGAGGATCAGCGAGACTGCTTCATGCTGTCTTCAGAGGACAGACCTATT   | 480                 |           |             |                 |  |  |  |
| QY  | 962          | ACAG-AGCCAGGATGAAATGTACAGAGAAAGCGGGGTGTGGCCCCAGATCAAGAGCCAG  | 1020                |           |             |                 |  |  |  |
| Db  | 481          | ACAGAAAGCCAGGATGAAATGTACAGAGAAAGCGGGGTGTGGCCCCAGATCAAGAGCCAG   | 540                 |           |             |                 |  |  |  |
| QY  | 1021         | AAAGTGAGGACATCCTCGCCTTCTATCTGGGCGGCTGCAGACACCAACGAGGTGACT  | 1080                |           |             |                 |  |  |  |
| Db  | 541          | AAAGTGAGGACATCCTCGCCTTCTATCTGGGCGGCTGCAGACACCAACGAGGTGACT  | 600                 |           |             |                 |  |  |  |
| QY  | 1081         | GACAGTGACTTCGAGACCAAGAACTTCTGGATGGGCTCACCTACAAAGCCGACAGGAC   | 1140                |           |             |                 |  |  |  |
| Db  | 601          | GACAGTGACTTCGAGACCAAGAACTTCTGGATNGGCTCACCTACAAAGCCGACAGGAC   | 660                 |           |             |                 |  |  |  |
| QY  | 1141         | TCCTTCGCTGGGCCACAGGGAGCACCCAG  | 1170                |           |             |                 |  |  |  |
| Db  | 661          | TCCTTCGCTGGGCCACAGGGAGCACCCAG  | 690                 |           |             |                 |  |  |  |
| RESULT 5  |              |  |                     |           |             |                 |  |  |  |
| LOCUS   | AB060195     | Macaca fascicularis brain cDNA clone:QccE-21387, full insert   | 2900 bp             | mRNA      | linear      | PRI 13-JUN-2000 |  |  |  |
| DEFINITION  |              | sequence.  |                     |           |             |                 |  |  |  |
| ACCESSION   | AB060195     |  |                     |           |             |                 |  |  |  |
| VERSION   | AB060195.1   | GI:13676426  |                     |           |             |                 |  |  |  |
| KEYWORDS  |              | oligo capping; fis (full insert sequence).   |                     |           |             |                 |  |  |  |
| SOURCE  |              | Macaca fascicularis adult male cerebellum cortex cDNA to mRNA, clone_lib:macaque brain cDNA library QccE clone:QccE-21387. |                     |           |             |                 |  |  |  |
| ORGANISM  |              | Macaca fascicularis  |                     |           |             |                 |  |  |  |
|   |              | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  |                     |           |             |                 |  |  |  |
|   |              | Mammalia; Euthera; Primates; Catarrhini; Cercopithecidae;  |                     |           |             |                 |  |  |  |
| REFERENCE   |              | 1  |                     |           |             |                 |  |  |  |
| AUTHORS   |              | Mitcham, J.L., King, G.E., Algate, P.A., Fling, S.P., Retter, M.W.,  |                     |           |             |                 |  |  |  |
| TITLE   |              | Fanger, G.R., Reed, S.G., Vedvick, T.S., Carter, D., Hill, P. and  |                     |           |             |                 |  |  |  |
| JOURNAL   |              | Albone, E.   |                     |           |             |                 |  |  |  |
| FEATURES  |              | Compositions and methods for the therapy and diagnosis of ovarian  |                     |           |             |                 |  |  |  |
|   |              | Cancer   |                     |           |             |                 |  |  |  |
|   |              | Patent: WO 0206317-A 321 24-JAN-2002;  |                     |           |             |                 |  |  |  |
|   |              | CORIXA CORPORATION (US)  |                     |           |             |                 |  |  |  |
|   |              | Location/Qualifiers  |                     |           |             |                 |  |  |  |
|   |              | 1..690   |                     |           |             |                 |  |  |  |

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|--|---|---|---------|-------|--------|-----------------|
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| BASE COUNT   |   |   |         |       |        |                 |
| ORIGIN   |   |   |         |       |        |                 |
| Query Match 50.7%; Score 672.8; DB 6; Length 690;            |   |   |         |       |        |                 |
| Best Local Similarity 99.3%; Pred. No. 2.7e-129;             |   |   |         |       |        |                 |
| Matches 685; Conservative 0; Mismatches 4; Indels 1; Gaps 1; |   |   |         |       |        |                 |
| QY   | 482   | TGGGCTGTGGGGCGGACCTGTGCTCTGCAGCCAGACAGCGATAGAACCTTTGTCTGTG 541      |         |       |        |                 |
| Db   | 1   | TGGGCTGTGGGGCGGACCTGTGCTCTGCAGCCAGACAGCGATAGAACCTTTGTCTGTG 60       |         |       |        |                 |
| QY   | 542   | CCTACTCCCCCGGAGGCAACTGGAGGTCAACGGGAGAGCAATCATCCCTATAAGAAGG 601      |         |       |        |                 |
| Db   | 61  | CCTACTCCCCCGGAGGCAACTGGAGGTCAACGGGAGAGCAATCATCCCTATAAGAAGG 120      |         |       |        |                 |
| QY   | 602   | GTGCTGTGTTTCGCTCTGCACAGCCAGTGTCTCAGGCTGCTTCAAGCCTGGGACCATG 661      |         |       |        |                 |
| Db   | 121   | GTGCTGTGTTTCGCTCTGCACAGCCAGTGTCTCAGGCTGCTTCAAGCCTGGGACCATG 180      |         |       |        |                 |
| QY   | 662   | CAGGGGGCTCTGTGAGGTCCCGAGGAATCTTGTGCGATGAGCTGCCAGAACCATGGAC 721      |         |       |        |                 |
| Db   | 181   | CAGGGGGCTCTGTGAGGTCCCGAGGAATCTTGTGCGATGAGCTGCCAGAACCATGGAC 240      |         |       |        |                 |
| QY   | 722   | GTCTCAACATCAGCACACTGCCACTGTCCCTGGCTACACGGGAGAGTACTGCTGCC 781        |         |       |        |                 |
| Db   | 241   | GTCTCAACATCAGCACACTGCCACTGTCCCTGGCTACACGGGAGAGTACTGCTGCC 300        |         |       |        |                 |
| QY   | 782   | AAGTGAGGTGCAGCTTCGAGTGTGTGCACGCGCGTTCGGGAGGAGAGTGCCTGCTGCG 841      |         |       |        |                 |
| Db   | 301   | AAGTGAGGTGCAGCTTCGAGTGTGTGCACGCGCGTTCGGGAGGAGAGTGCCTGCTGCG 360      |         |       |        |                 |
| QY   | 842   | TCTGTGACATCGGCTACGGGGAGGCCAGTGTGCCACCAAGTGTCTTCCCTTCCACA 901        |         |       |        |                 |
| Db   | 361   | TCTGTGACATCGGCTACGGGGAGGCCAGTGTGCCACCAAGTGTCTTCCCTTCCACA 420        |         |       |        |                 |
| QY   | 902   | CCTGTGACCTGAGGATCGACGGAGTCTCTCATGCTGTCTTCAGAGGCAGACACCTATT 961      |         |       |        |                 |
| Db   | 421   | CCTGTGACCTGAGGATCGACGGAGTCTCTCATGCTGTCTTCAGAGGCAGACACCTATT 480      |         |       |        |                 |
| QY   | 962   | ACAG - AGCCAGGATGAATGTTCAGAGGAAAGCGGGGTGCTGGCCCGAGATCAAGAGCCAG 1020 |         |       |        |                 |
| Db   | 481   | ACAGAGCCAGGATGAATGTTCAGAGGAAAGCGGGGTGCTGGCCCGAGATCAAGAGCCAG 540     |         |       |        |                 |
| QY   | 1021  | AAAGTGAGGACATCCTCGCTTCTATCTGGGCGCTTGGAGACCAACCAAGAGTGA 1080         |         |       |        |                 |
| Db   | 541   | AAAGTGAGGACATCCTCGCTTCTATCTGGGCGCTTGGAGACCAACCAAGAGTGA 600          |         |       |        |                 |
| QY   | 1081  | GACAGTGACTTTCAGACCAAGAACTTCTGGATCGGGCTCACCTACAAGACCCCAAGGAC 1140    |         |       |        |                 |
| Db   | 601   | GACAGTGACTTTCAGACCAAGAACTTCTGGATCGGGCTCACCTACAAGACCCCAAGGAC 660     |         |       |        |                 |
| QY   | 1141  | TCCTTCCGCTGGGCCACAGGGGAGCCAG 1170                                   |         |       |        |                 |
| Db   | 661   | TCCTTCCGCTGGGCCACAGGGGAGCCAG 690                                    |         |       |        |                 |
| RESULT 5   |   |   |         |       |        |                 |
| LOCUS  | AB060195  | Macaca fascicularis brain cDNA clone:QcCE-21387, full insert        | 2900 bp | mRNA  | linear | PRI 13-JUN-2001 |
| DEFINITION   | AB060195  | Macaca fascicularis   |         |       |        |                 |
| ACCESSION  | AB060195  | sequence.   |         |       |        |                 |
| VERSION  | AB060195.1  | GI:13676426   |         |       |        |                 |
| KEYWORDS   | oligo capping; fis (full insert sequence).                        |   |         |       |        |                 |
| SOURCE   | Macaca fascicularis adult male cerebellum cortex cDNA to mRNA,    |   |         |       |        |                 |
|  | clone_lib:macaque brain cDNA library QcCE clone:QcCE-21387.       |   |         |       |        |                 |
| ORGANISM   | Macaca fascicularis   |   |         |       |        |                 |
|  | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; |   |         |       |        |                 |
|  | Mammalia; Euthera; Primates; Catarrhini; Cercopitheidae;          |   |         |       |        |                 |
| REFERENCE  | 1 (sites)   |   |         |       |        |                 |





Mon Dec 30 09:16:14 2002

REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
COMMENT

DOE Joint Genome Institute  
Sequencing of Human Chromosome 16  
Unpublished  
2 (bases 1 to 205044)  
DOE Joint Genome Institute.  
Direct Submission  
Submitted (03-AUG-1999) Production Sequencing Facility, DOE Joint  
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA  
On Jun 21, 2000 this sequence version replaced gi:7689944.  
-----Genome Center  
Center: Joint Genome Institute  
Center Code: JGI  
Web site: http://www.jgi.doe.gov  
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Project Information  
Center Project Name: 595469  
Center clone name: RPCI-11\_492H8  
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Summary Statistics  
Consensus quality: 156671 bases at least Q40  
Consensus quality: 183548 bases at least Q30  
Consensus quality: 189961 bases at least Q20  
Estimated insert size: 189500; agarose-fp estimation  
Quality coverage: 3.4 in Q20 bases; sum-of-contigs estimation  
Quality coverage: 3.23 in Q20 bases; sum-of-contigs estimation.  
\* NOTE: This is a 'working draft' sequence. It currently  
\* consists of 60 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence  
\* as soon as it is available and the accession number will  
\* be preserved.

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/db\_xref="taxon:9606"  
/chromosome="16"  
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48046 a 43474 c 42543 g 46533 t  
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Best Local Similarity 89.4%; Pred. No. 5.9e-40;  
Matches 270; Conservative 0; Mismatches 31; Indels 1; Gaps 1;

Qy 214 CTGGACTGGAGTACAGCTGCGCCCAACTGGCTCAAGCCAGGCGACCCCTCTCTGTGGAATC 273  
Db 78515 CAGGACTGGAGTACAGCTGCGCCCAACTGGCTCAAGCCAGGCGACCCCTCTCTGTGGAATC 78574

Qy 274 CCAACCCCGAGGCTGGCCTCCGCGCTGTGGCGCACCCCTGCAAGTGGGCTGGAAATGCGAG 333  
Db 78575 CCAACCCCGAGGCTGGCCTCCGCGCTGTGGCGCACCCCTGCAAGTGGGCTGGAAATGCGAG 78634

Qy 334 CTGCTGCCCGCGGCTGGCGCTCTTTTGAAGTGGTCAAGCTATGTTGCGAGAGGGG 393  
Db 78635 CTGCTGCCCGCGGCTGGCGCTCTTTTGAAGTGGTCAAGCTATGTTGCGAGAGGGG 78694

Qy 394 CAGCGTACAGCCAGCGCGGAGAGAGTGTGCTCGCAACGCCACCTGCACCCACTACACG 453  
Db 78695 CAGCGTACAGCCAGCGCGGAGAGAGTGTGCTCGCAACGCCACCTGCACCCACTACACG 78754

Qy 454 CAGCT-CGTGTGGCCACCTCAAGCCAGCTGGGCTGTGGGGGACCTGTGCTCTGCAGG 512  
Db 78755 CAGCTGTGCTGTGCGAGGTGAGGCGAGGCTGCGCAACGCCACCTGCACCCACTG 78814

Qy 513 CC 514  
Db 78815 TC 78816

RESULT 7  
AC009125/c  
LOCUS  
DEFINITION  
Homo sapiens chromosome 16 clone RP11-492H8, WORKING DRAFT  
SEQUENCE, 60 unordered pieces.  
AC009125  
AC009125.5 GI:8575963  
VERSION  
KEYWORDS  
HTG; HTGS\_PHASE1; HTGS\_DRAFT.  
SOURCE  
Homo sapiens.  
ORGANISM  
Homo sapiens.  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE  
1 (bases 1 to 205044)

\* 25922 26021: gap of unknown length  
\* 26022 27292: contig of 1271 bp in length  
\* 27293 27392: gap of unknown length  
\* 27393 28954: contig of 1562 bp in length  
\* 28955 30763: gap of unknown length  
\* 30764 30863: contig of 1709 bp in length  
\* 30864 32893: gap of unknown length  
\* 32894 32993: contig of 2030 bp in length  
\* 32994 34228: gap of unknown length  
\* 34229 34328: contig of 1235 bp in length  
\* 34329 36129: gap of unknown length  
\* 36130 36229: gap of unknown length  
\* 36230 38137: contig of 1907 bp in length  
\* 38138 39974: gap of unknown length  
\* 39975 40074: gap of unknown length  
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\* 41565 41664: gap of unknown length  
\* 41666 43566: contig of 1490 bp in length  
\* 43567 43666: gap of unknown length  
\* 43668 45289: contig of 1902 bp in length  
\* 45290 45389: gap of unknown length  
\* 45390 47644: contig of 1623 bp in length  
\* 47645 47744: gap of unknown length  
\* 47746 50582: contig of 2255 bp in length  
\* 50583 50682: gap of unknown length  
\* 50684 53054: contig of 2838 bp in length  
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\* 57554 57664: gap of unknown length  
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\* 59870 61958: contig of 2106 bp in length  
\* 61959 62058: gap of unknown length  
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\* 65393 65492: gap of unknown length  
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\* 68422 68520: gap of unknown length  
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\* 71330 73628: contig of 2709 bp in length  
\* 73629 73728: gap of unknown length  
\* 73729 77868: contig of 2299 bp in length  
\* 77869 77969: gap of unknown length  
\* 77970 81037: contig of 4140 bp in length  
\* 81038 81136: gap of unknown length  
\* 81137 83328: contig of 3068 bp in length  
\* 83329 83428: gap of unknown length  
\* 83429 86409: contig of 2192 bp in length  
\* 86410 86509: gap of unknown length  
\* 86510 90134: contig of 2981 bp in length  
\* 90135 90234: gap of unknown length  
\* 90235 93916: contig of 3625 bp in length  
\* 93917 94016: gap of unknown length  
\* 94017 97718: contig of 3682 bp in length  
\* 97719 97818: gap of unknown length  
\* 97820 100965: contig of 3702 bp in length  
\* 100966 101065: gap of unknown length  
\* 101066 105157: contig of 3147 bp in length  
\* 105158 105256: gap of unknown length  
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\* 110077 110176: gap of unknown length  
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\* 114321 114420: gap of unknown length  
\* 114421 120993: contig of 4144 bp in length  
\* 120994 121093: gap of unknown length  
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\* 136415 136514: gap of unknown length  
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\* 136515 150305: contig of 13791 bp in length  
\* 150306 150405: gap of unknown length  
\* 150406 163992: contig of 13587 bp in length  
\* 163993 164092: gap of unknown length  
\* 164093 186975: contig of 22883 bp in length  
\* 186976 187075: gap of unknown length  
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Best Local Similarity 89.4%; Pred. No. 5.9e-40;  
Matches 270; Conservative 0; Mismatches 31; Indels 1; Gaps 1;  
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Db 96235 CAGGACTGGAGTGACACGCTGGCCCACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATC 273  
QY 274 CCAACCCCGAGCTGGGATCCGGCTGTGGCGCACCTGCAAGTGGGCTGGAACATGCAG 333  
Db 96175 CCAACCCCGAGCTGGGATCCGGCTGTGGCGCACCTGCAAGTGGGCTGGAACATGCAG 333  
QY 334 CTGCTCCCGCGGCTGGGCTCTTGTGTAAGTGTGAGCTGAGCCCTATGTTTCAGAGGGG 393  
Db 96115 CTGCTCCCGCGGCTGGGCTCTTGTGTAAGTGTGAGCTGAGCCCTATGTTTCAGAGGGG 393  
QY 394 CAGCGGTACAGCCACGCGGCGAGGAGTGTGCTCGCAACGCCACCTGCACCCACTACAG 453  
Db 96055 CAGCGGTACAGCCACGCGGCGAGGAGTGTGCTCGCAACGCCACCTGCACCCACTACAG 453  
QY 454 CAGCT-CGTGTGGGCCACCTCAAGCCAGCTGGGCTGTGGCGGCGAGCCCTGTGCTCTGAGG 512  
Db 95995 CAGGTGAGTGTGCTGAGGAGGCGGCGAGGCTGCCAGTCCAGATACAGACTTCCACTGG 512  
QY 513 CC 514  
Db 95935 TC 95934

## RESULT 8

AC009053

## LOCUS

Homo sapiens

## DEFINITION

Homo sapiens chromosome 16 clone RP11-252A24, complete sequence.

## ACCESSION

AC009053

## VERSION

AC009053.7 GI:15022678

## KEYWORDS

HNG.

## SOURCE

Homo sapiens.

## ORGANISM

Homo sapiens

## REFERENCE

1 (bases 1 to 163427)

## AUTHORS

DOE Joint Genome Institute and Stanford Human Genome Center.

## TITLE

Direct Submission

## JOURNAL

Unpublished

## REFERENCE

2 (bases 1 to 163427)

## AUTHORS

DOE Joint Genome Institute.

## TITLE

Direct Submission

## JOURNAL

Submitted (03-AUG-1999)

Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA

DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA

Submitted (27-JUL-2001)

DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA

On Jul 27, 2001 this sequence version replaced gi:9256116.

Draft Sequence Produced by DOE Joint Genome Institute



Web site: <http://www.jgi.doe.gov>

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Project Information  
Center Project Name: 558525  
Center clone name: RPi-11\_396D24  
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#### Summary Statistics

Consensus quality: 191546 bases at least Q40  
Consensus quality: 193703 bases at least Q30  
Consensus quality: 194840 bases at least Q20  
Estimated insert size: 0: null estimation  
Quality coverage: 2:1474836E7 in Q20 bases; null estimation  
Quality coverage: 8:2 in Q20 bases; sum-of-contigs estimation.  
\* NOTE: This is a 'working draft' sequence. It currently  
\* consists of 10 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence  
\* as soon as it is available and the accession number will  
\* be preserved.

1 1600: contig of 1600 bp in length  
\* 1601 1700: gap of unknown length  
\* 1701 3466: contig of 1766 bp in length  
\* 3467 3586: gap of unknown length  
\* 3587 5709: contig of 2143 bp in length  
\* 5710 5809: gap of unknown length  
\* 5810 7800: contig of 1991 bp in length  
\* 7801 7900: gap of unknown length  
\* 7901 14727: contig of 6827 bp in length  
\* 14728 14828: gap of unknown length  
\* 14829 26876: contig of 12049 bp in length  
\* 26877 26977: gap of unknown length  
\* 26978 46812: contig of 19736 bp in length  
\* 46813 70129: gap of unknown length  
\* 70130 70229: contig of 2317 bp in length  
\* 70230 93612: gap of unknown length  
\* 93613 93712: contig of 2383 bp in length  
\* 93713 197460: contig of 103748 bp in length.

#### FEATURES

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/clone\_lib="RP11 human BAC library 11"  
50025 a 47482 c 47491 g 51562 t 900 others

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Best Local Similarity 89.1%; Pred: No. 1.3e-39;  
Matches 269; Conservative 0; Mismatches 32; Indels 1; Gaps 1;

|    |        |   |        |
|----|--------|---|--------|
| QY | 214    | CTGACTGAGTACAGCCTGGCCCAACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATC   | 273    |
| Db | 125634 | CAGGACTGGAGTACAGCCTGGCCCAACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATC | 125693 |
| QY | 274    | CCAAACCCGAGCCTGGCATCCGGCTGTGGCCACCTGCAAGTGGGCTGGAACATGCAG   | 333    |
| Db | 125694 | CCAAACCCGAGCCTGGCATCCGGCTGTGGCCACCTGCAAGTGGGCTGGAACATGCAG   | 125753 |
| QY | 334    | CTGTGTCGGCGGCTTGGCTCTTTGTTGAAGTGGTTCAGCTATGTTTCAGAGGGG      | 393    |
| Db | 125754 | CTGTGTCGGCGGCTTGGCTCTTTGTTGAAGTGGTTCAGCTATGTTTCAGAGGGG      | 125813 |
| QY | 394    | CAGGGTACACCCAGCGGCGAGGAGTGTCTGCGAACGCCACCTGCACCCACTACAGG    | 453    |
| Db | 125814 | CAGGGTACACCCAGCGGCGAGGAGTGTCTGCGAACGCCACCTGCACCCACTACAGG    | 125873 |
| QY | 454    | CAGCT-CGTGTGGGCCACCTCAAGCCAGCTGGGCTGTGGGCGGACCTGTCTGTGAGG   | 512    |

Db 125874 CAGGTGAGTGTGCTGCGAGGTGAGGCGAGGCTGCCAGTCCACATACAGACTTCCACTGG 125933  
QY 513 CC 514  
Db 125934 GC 125935

RESULT 11  
AC097331/c  
LOCUS  
DEFINITION  
AC097331.4 GI:21535856  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM  
REFERENCE  
AUTHORS

200409 bp DNA linear HTG 22-JUN-2002  
Pan troglodytes clone RP43-53A2, WORKING DRAFT SEQUENCE, 14  
unordered pieces.  
HTG; HTGS\_PHASE1; HTGS\_DRAFT; HTGS\_FULLTOP.  
Chimpanzee.  
Pan troglodytes  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.  
Muzny, D.M., Adams, C., Adio-Oduola, B., Ali-Osman, F.R., Allen, C.,  
Alsbrooks, S.L., Amaratunga, H.C., Are, J.R., Ayale, M., Banks, T.,  
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Carron, T.F., Carter, M., Cavazos, S.R., Chacko, J., Chavez, D.,  
Chen, G., Chen, R., Chen, Z., Chowdhry, I., Christopoulos, C.,  
Cleveland, C.D., Cox, C., Coyle, M.D., Dathorne, S.R., David, R.,  
Davila, M.L., Davis, C., Davy-Carroll, L., Dederich, D.A.,  
Delaney, K.R., Delgado, O., Denn, A.L., Ding, Y., Dinh, H.H.,  
Douthwaite, K.J., Drepper, H., Dugan-Rocha, S., Durbin, K.J.,  
Earhart, C., Edgar, D., Edwards, C.C., Elhaj, C., Escotto, M.,  
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Li, J., Li, Z., Lichtarge, O., Lieu, C., Liu, J., Liu, W., Loughheed, H.,  
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Maheshwari, M., Mapua, P., Martin, R., Martindale, A., Martinez, E.,  
Massey, E., Mawhiney, E., McLeod, M.P., Meador, M., Mei, G., Metzker, M.,  
Miner, G., Miner, Z., Mitchell, T., Mohabbat, K., Morgan, M., Morris, S.,  
Moser, M., Neal, D., Newton, J., Newton, N., Nguyen, A., Nguyen, N.,  
Nguyen, N., Nickerson, E., Nwokenkwo, S., Ogih, M., Okuwonu, G.,  
Oragunye, N., Oviedo, R., Pace, A., Payton, B., Peery, J., Perez, L.,  
Peters, L., Pickens, R., Primus, E., Pu, L.L., Quiles, M., Ren, Y.,  
Rives, M., Rojas, A., Rojibokan, I., Rolfe, M., Ruiz, S., Savary, G.,  
Scherer, S., Scott, G., Shen, H., Shoohtari, N., Sisson, I.,  
Sodergren, E., Sonake, F., Sparks, A., Stanley, H., Stone, H.,  
Stutton, A., Svatek, A., Tabor, P., Tamerisa, A., Tamerisa, K., Tang, H.,  
Tansley, J., Taylor, C., Taylor, T., Telford, B., Thomas, N., Thomas, S.,  
Usmani, K., Vasquez, L., Vera, V., Villalob, D., Vinson, R., Wang, Q.,  
Wang, S., Ward-Moore, S., Warren, R., Washington, C., Watlington, S.,  
Williams, G., Williamson, A., Wleczyk, R., Woodson, S., Worley, K.,  
Wu, C., Wu, Y., Wu, Y.F., Zhou, J., Zorrilla, S., Nelson, D.,  
Weinstock, G., and Gibbs, R.

Direct Submission  
Unpublished  
2 (bases 1 to 200409)  
Worley, K.C.  
Direct Submission  
Submitted (14-OCT-2001) Human Genome Sequencing Center, Department  
of Molecular and Human Genetics, Baylor College of Medicine, One  
Baylor Plaza, Houston, TX 77030, USA  
3 (bases 1 to 200409)  
Worley, K.C.  
Direct Submission  
Submitted (22-JUN-2002) Human Genome Sequencing Center, Department  
of Molecular and Human Genetics, Baylor College of Medicine, One



|    |      |  |      |
|----|------|--|------|
| QY | 334  | CTGCTGCCCGGGCTTTGGCGTCCCTTTCTTGAAGTGGTCAGCCTATGGTTTGCAGAGGGG | 393  |
|    |      |  |      |
| Db | 8113 | CTGCTGCCCGGGGCTTTGGCGTCCCTTTGCGAAGTGGTCAGCCTATGGTTTGCAGAGGGG |      |
|    |      |  |      |
| QY | 394  | CAGCGGTACAGCCACGCGGAGGAGAGTGTGCTCGCAACGCCACCTGCACCCACTACAGG  | 453  |
|    |      |  |      |
| Db | 8173 | CAGCGGTACAGCCACGCGGAGGAGAGTGTGCTCGCAACGCCACCTGCACCCACTACAGG  |      |
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| QY | 454  | CAGCT-CGTGTGGGCCACCTCAAGCCAGCTGGGCTGTGGCGGCACCTGTGCTCTGCAGG  | 512  |
|    |      |  |      |
| Db | 8233 | CAGGTGAGTGTGCTGCAGGTGAGGCCAGGTGCCAGCTCCAGATACAGACTTCCACTGG   | 8292 |
|    |      |  |      |
| QY | 513  | CC   | 514  |
|    |      |  |      |
| Db | 8293 | GC   | 8294 |
|    |      |  |      |

|            |   |                                    |         |                 |                 |
|------------|---|------------------------------------|---------|-----------------|-----------------|
| RESULT 13  | AC097265  | 191108 bp                          | DNA     | linear          | HTG 25-OCT-2001 |
| LOCUS      | AC097265/c  | Pan troglodytes clone RP43-113N13, | WORKING | DRAFT SEQUENCE, | 4               |
| DEFINITION |   | unordered pieces.                  |         |                 |                 |
| ACCESSION  | AC097265  |                                    |         |                 |                 |
| VERSION    | AC097265.3  | GI:16328241                        |         |                 |                 |
| KEYWORDS   | HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP; HTGS_ACTIVEFIN. |                                    |         |                 |                 |
| SOURCE     | Pan troglodytes   |                                    |         |                 |                 |
| ORGANISM   | Pan troglodytes   |                                    |         |                 |                 |

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.  
 1 (bases 1 to 191108)  
 Muzny, D.M., Adams, C., Adio-Oduola, B., Ali-osman, F.R., Allen, C.,  
 Alsbrooks, S.L., Amaratunga, H.C., Are, J.R., Banks, T., Barbara, J.,  
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 Carter, M., Cavazos, S.R., Chacko, J., Chavez, D., Chen, G., Chen, R.,  
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 Ruiz, S., Savery, G., Scherer, S., Scott, G., Shen, H., Shoohtari, N.,  
 Sisson, I., Sodergren, E., Sonaike, T., Sparks, A., Stanley, H.,  
 Stone, H., Sutton, A., Svatek, A., Tabor, P., Tamerisa, A., Tamerisa, K.,  
 Tang, H., Tansey, J., Taylor, C., Taylor, T., Telford, B., Thomas, N.,  
 Thomas, S., Usmami, K., Vasquez, L., Vera, V., Villalob, D., Vinson, R.,  
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 Weinstein, G., and Gibbs, R.  
 Direct Submission  
 Unpublished  
 2 (bases 1 to 191108)  
 Worley, K.C.

TITLE  
JOURNAL  
REFERENCE  
AUTHORS

Mon Dec 30 09:16:14 2002

TITLE  
JOURNAL  
COMMENT  
Direct Submission  
Submitted (13-OCT-2001) Human Genome Sequencing Center, Department  
of Molecular and Human Genetics, Baylor College of Medicine, One  
Baylor Plaza, Houston, TX 77030, USA  
On Oct 23, 2001 this sequence version replaced gi:16258969.

----- Genome Center  
Center: Baylor College of Medicine  
Center code: BCM  
Web site: http://www.hgsc.bcm.tmc.edu/  
Contact: hgsc-help@bcm.tmc.edu  
----- Project Information  
Center project name: ZUAR  
Center clone name: RP43-119N13  
----- Summary Statistics  
Sequencing vector: Plasmid; M77789  
Chemistry: Dye-terminator Big Dye; 100% of reads  
Assembly program: Phrap; version 0.990329  
Consensus quality: 191814 bases at least Q40  
Consensus quality: 193054 bases at least Q30  
Consensus quality: 194113 bases at least Q20  
Estimated insert size: 193275; sum-of-contigs estimation  
Quality coverage: 0x in Q20 bases; agarose-fp estimation  
Quality coverage: 9.3x in Q20 bases; sum-of-contigs estimation

\* NOTE: Estimated insert size may differ from sequence length  
(see http://www.hgsc.bcm.tmc.edu/docs/genbank\_draft\_data.html).  
\* NOTE: This is a 'working draft' sequence. It currently  
\* consists of 4 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence  
\* as soon as it is available and the accession number will  
\* be preserved.

\* 121806: contig of 121806 bp in length  
\* 121807: gap of unknown length  
\* 121907: contig of 50625 bp in length  
\* 172531: gap of unknown length  
\* 172532: contig of 8339 bp in length  
\* 172533: gap of unknown length  
\* 180970: gap of unknown length  
\* 180971: 181070: gap of unknown length  
\* 181071: 191108: contig of 10038 bp in length.

FEATURES  
source  
Location/Qualifiers  
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/organism="Pan troglodytes"  
/db\_xref="taxon:9598"  
/clone="RP43-119N13"  
BASE COUNT 49835 a 45817 c 45055 g 50100 t 301 others  
ORIGIN

Query Match 17.6%; Score 234; DB 2; Length 191108;  
Best Local Similarity 88.1%; Pred. No. 1.3e-38;  
Matches 266; Conservative 0; Mismatches 35; Indels 1; Gaps 1;  
QY 214 CTGGACTGGAGTGACAGCGCTGGCCCAACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATC 273  
DB 63506 CAGGACTGGAGTGACAGCGCTGGCCCAACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATC 63447  
QY 274 CCAACCCGAGCGCTGGCATTGGCCCTGTGGCGACACCTGCAAGTGGCTGGAACATGCAG 333  
DB 63446 CCAACCCGAGCGCTGGCATTGGCCCTGTGGCGACACCTGCAAGTGGCTGGAACATGCAG 63387  
QY 334 CTGCTGCCCGCGGCTGGCGTCTTTTGTGAAGTGTGTACGCTATGGTTTGCAGAGGGG 393  
DB 63386 CTGCTGCCCGCGGCTGGCGTCTTTTGTGAAGTGTGTACGCTATGGTTTGCAGAGGGG 63327  
QY 394 CAGCGGTACAGCCAGCGGACGAGAGTGCTGCTGCAACGCCACCTGCAACCCACTACACG 453  
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QY 454 CAGCT-CGTGTGGCGCCACCTCAAGCCAGCTGGGCTGTGGCGGCGACCTGTGCTTGCAGG 512  
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QY 513 CC 514  
DB 63206 GC 63205

RESULT 14  
AC026468 179675 bp DNA linear PRI 02-NOV-2001  
AC026468/c Homo sapiens chromosome 16 clone RP11-419C5, complete sequence.  
DEFINITION  
AC026468 Homo sapiens chromosome 16 clone RP11-419C5, complete sequence.  
AC026468.6 GI:16596532  
VERSION  
AC026468.6 GI:16596532  
KEYWORDS  
HTG.  
SOURCE  
Homo sapiens.  
ORGANISM  
Homo sapiens  
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE  
1 (bases 1 to 179675)  
DOE Joint Genome Institute.  
TITLE  
Sequencing of Human Chromosome 16  
JOURNAL  
Unpublished  
REFERENCE  
2 (bases 1 to 179675)  
DOE Joint Genome Institute.  
AUTHORS  
Direct Submission  
TITLE  
Submitted (22-MAR-2000) Production Sequencing Facility, DOE Joint  
JOURNAL  
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA  
On Nov 2, 2001 this sequence version replaced gi:14589452.

SEQUENCE QUALITY ASSESSMENT:  
This entry has been annotated with sequence quality  
estimates computed by the Phrap assembly program.  
All manually edited bases have been reduced to quality zero.  
Quality levels above 40 are expected to have less than  
1 error in 10,000 bp.  
Base-by-base quality values are not generally visible from the  
GenBank flat file format but are available as part  
of this entry's ASN.1 file.

-----  
Sequence Quality Assessment:  
This entry has been annotated with sequence quality  
estimates computed by the Phrap assembly program.  
All manually edited bases have been reduced to quality zero.  
Quality levels above 40 are expected to have less than  
1 error in 10,000 bp.  
Base-by-base quality values are not generally visible from the  
GenBank flat file format but are available as part  
of this entry's ASN.1 file.

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Sequence Quality Assessment:  
This entry has been annotated with sequence quality  
estimates computed by the Phrap assembly program.  
All manually edited bases have been reduced to quality zero.  
Quality levels above 40 are expected to have less than  
1 error in 10,000 bp.  
Base-by-base quality values are not generally visible from the  
GenBank flat file format but are available as part  
of this entry's ASN.1 file.

FEATURES  
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Location/Qualifiers  
1. 179675  
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/db\_xref="taxon:9606"  
/chromosome="16"  
/clone="RP11-419C5"  
BASE COUNT 49567 a 43464 c 41958 g 44686 t  
ORIGIN

Query Match 17.5%; Score 232.2; DB 9; Length 179675;  
Best Local Similarity 96.7%; Pred. No. 3e-38;  
Matches 237; Conservative 0; Mismatches 8; Indels 0; Gaps 0;  
QY 214 CTGGACTGGAGTGACAGCGCTGGCCCAACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATC 273  
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QY 274 CCAACCCGAGCGCTGGCATTGGCCCTGTGGCGACACCTGCAAGTGGCTGGAACATGCAG 333  
DB 46501 CCAACCCGAGCGCTGGCATTGGCCCTGTGGCGACACCTGCAAGTGGCTGGAACATGCAG 46442  
QY 334 CTGCTGCCCGCGGCTGGCGTCTTTTGTGAAGTGTGTACGCTATGGTTTGCAGAGGGG 393



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Db 46441 CTGCTACCCGGGCTGTGTCTTGTGAAAGTGTCTAGCCTATGTTGCAGAGGG 46382
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Db 46381 CAGCGGTACAGCCACCGCGCAGGAGAGTGTCTGCAACGCCACCTGCACCCACTACAG 46322
QY 454 CAGCT 458
Db 46321 CAGGT 46317

RESULT 15
AC009022/c
LOCUS 190595 bp DNA linear PRI 07-FEB-2002
DEFINITION Homo sapiens chromosome 16 clone RP11-106J23, complete sequence.
AC009022
VERSION AC009022.9 GI:18581696
KEYWORDS HTG.
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
DOE Joint Genome Institute.
Sequencing of Human Chromosome 16
Unpublished
2 (bases 1 to 190595)
DOE Joint Genome Institute.
Direct Submission
Submitted (03-AUG-1999) Production Sequencing Facility, DOE Joint
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
3 (bases 1 to 190595)
DOE Joint Genome Institute.
Direct Submission
Submitted (07-FEB-2002) Production Sequencing Facility, DOE Joint
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
On Feb 7, 2002 this sequence version replaced gi:16924076.
Sequence Quality Assessment:
This entry has been annotated with sequence quality
estimates computed by the Phrap assembly program.
All manually edited bases have been reduced to quality zero.
Quality levels above 40 are expected to have less than
1 error in 10,000 bp.
Base-by-base quality values are not generally visible from the
GenBank flat file format but are available as part
of this entry's ASN.1 file.
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Sequence Quality Assessment:
This entry has been annotated with sequence quality
estimates computed by the Phrap assembly program.
All manually edited bases have been reduced to quality zero.
Quality levels above 40 are expected to have less than
1 error in 10,000 bp.
Base-by-base quality values are not generally visible from the
GenBank flat file format but are available as part
of this entry's ASN.1 file.
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/chromosome="16"
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91050..91410
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BASE COUNT 51435 a 43243 c 43697 g 52220 t
ORIGIN

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QY 214 CTGACTGGAGTGACAGCCTGGCCCAACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATC 273
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Db 188805 CTGCTACCCCGGGGCTTGGTGTCTTTGTCGAAGTGGTTCAGCTATGTTTGCAGAGGGG 188746
QY 394 CAGCGGTACAGCCACCGCGGAGGAGTGTCTGCAACGCCACCTGCACCCACTACAG 453
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QY 454 CAGCT 458
Db 188685 CAGCT 188681

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Search completed: December 28, 2002, 20:14:24  
Job time : 4575.86 secs

Query Match 17.5%; Score 232.2; DB 9; Length 190595;  
Best Local Similarity 96.7%; Pred. No. 3e-38;  
Matches 237; Conservative 0; Mismatches 8; Indels 0; Gaps 0;



| Result No. | Score  | Query |        |    | Description       |                   |
|------------|--------|-------|--------|----|-------------------|-------------------|
|            |        | Match | Length | ID |                   |                   |
| 1          | 1876   | 100.0 | 1876   | 9  | US-09-944-413-49  | Sequence 49, Appl |
| 2          | 1876   | 100.0 | 1876   | 9  | US-09-944-403-49  | Sequence 49, Appl |
| 3          | 1876   | 100.0 | 1876   | 9  | US-09-944-896-49  | Sequence 49, Appl |
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| 15         | 1876   | 100.0 | 1876   | 10 | US-09-943-851A-49 | Sequence 49, Appl |
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| 17         | 1776.2 | 94.7  | 1923   | 10 | US-09-726-643-12  | Sequence 12, Appl |
| 18         | 1751   | 93.3  | 1856   | 10 | US-09-790-264-1   | Sequence 1, Appl  |
| 19         | 1293   | 68.9  | 1338   | 10 | US-09-790-264-3   | Sequence 3, Appl  |



QY 1141 AGAAGTGCAGGACATCTCGCCTTCTATCTGGGCGCCTTGAGACCAACACGAGTGA 1200  
DB 1141 AGAAGTGCAGGACATCTCGCCTTCTATCTGGGCGCCTTGAGACCAACACGAGTGA 1200  
QY 1201 CTCACAGTGCATCGAGACCAAGAACTTCCTGGATCGGCTTACCTACAAGACCCCAAGG 1260  
DB 1201 CTCACAGTGCATCGAGACCAAGAACTTCCTGGATCGGCTTACCTACAAGACCCCAAGG 1260  
QY 1261 ACTCCTTCGCGTGGGCGCACAGGGGAGCACCAGGCTTCCACAGTTTTCCTTGGGCGAGC 1320  
DB 1261 ACTCCTTCGCGTGGGCGCACAGGGGAGCACCAGGCTTCCACAGTTTTCCTTGGGCGAGC 1320  
QY 1321 CTGACAACACAGGCTGGTGTGGCTGAGTCTGCCATGGGTTTGGCAACTCGGTGGAGC 1380  
DB 1321 CTGACAACACAGGCTGGTGTGGCTGAGTCTGCCATGGGTTTGGCAACTCGGTGGAGC 1380  
QY 1381 TCGAGGCTTCAGTGCCTTCAACTGGAACGACAGGCTGCTCAAAACCCGAAACCGTTACA 1440  
DB 1381 TCGAGGCTTCAGTGCCTTCAACTGGAACGACAGGCTGCTCAAAACCCGAAACCGTTACA 1440  
QY 1441 TCTGCCAGTTTCCAGGAGCAGCATCTCCCGTGGGCGCCAGGCTCTGAGGCTGACCA 1500  
DB 1441 TCTGCCAGTTTCCAGGAGCAGCATCTCCCGTGGGCGCCAGGCTCTGAGGCTGACCA 1500  
QY 1501 CATGGCTCCCTCGCTGGGCTGGGAGCAGGCTCTGCTTACCTGTGTGCCACCTGTCT 1560  
DB 1501 CATGGCTCCCTCGCTGGGCTGGGAGCAGGCTCTGCTTACCTGTGTGCCACCTGTCT 1560  
QY 1561 GGAACAAGGCGCAGGTTAAGACACATGCTCATGTCCAAAGAGGCTCTAGACCTTGCAC 1620  
DB 1561 GGAACAAGGCGCAGGTTAAGACACATGCTCATGTCCAAAGAGGCTCTAGACCTTGCAC 1620  
QY 1621 AATGCCAGAAGTTGGGCGAGAGAGGAGGAGGCGGCGGCTGAGGCGCAGGAGTGAGTGT 1680  
DB 1621 AATGCCAGAAGTTGGGCGAGAGAGGAGGAGGCGGCGGCTGAGGCGCAGGAGTGAGTGT 1680  
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DB 1681 AGAACAAGCTGGGCGCTTCGCTGCTTTTGTGATGGAAGATGGGCTTCAATTAGATGC 1740  
QY 1741 GAAGAGAGGAGACACCGCAGTGTCCAAAGGCTCTCTTCCACCTTGGGCGCAGACCC 1800  
DB 1741 GAAGAGAGGAGACACCGCAGTGTCCAAAGGCTCTCTTCCACCTTGGGCGCAGACCC 1800  
QY 1801 TGTGGGCGAGGAGCTTCCCTGTGGCATGAACCCCGGCTATTAATATGAATCAG 1860  
DB 1801 TGTGGGCGAGGAGCTTCCCTGTGGCATGAACCCCGGCTATTAATATGAATCAG 1860  
QY 1861 CTGAAAAA 1876  
DB 1861 CTGAAAAA 1876

## RESULT 2

US-09-944-403-49

; Sequence 49, Application US/09944403

; Patent No. US20020165143A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin

; APPLICANT: Botstein, David

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Flivarov, Ellen

; APPLICANT: Gerriksen, Mary

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul

; APPLICANT: Grimaldi, Christopher

; APPLICANT: Gurney, Austin

; APPLICANT: Hillan, Kenneth

; APPLICANT: Kijavin, Ivar

; APPLICANT: Napier, Mary

; APPLICANT: Roy, Margaret

APPLICANT: Tamas, Daniel  
APPLICANT: Wood, William  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P2548P1C1  
CURRENT APPLICATION NUMBER: US/09/944,403  
CURRENT FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 09/866,028  
PRIOR FILING DATE: 2001-05-25  
PRIOR APPLICATION NUMBER: 60/067,411  
PRIOR FILING DATE: December 3, 1997  
PRIOR APPLICATION NUMBER: 60/069,334  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069,335  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069,278  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069,425  
PRIOR FILING DATE: December 12, 1997  
PRIOR APPLICATION NUMBER: 60/069,696  
PRIOR FILING DATE: December 16, 1997  
PRIOR APPLICATION NUMBER: 60/069,694  
PRIOR FILING DATE: December 16, 1997  
PRIOR APPLICATION NUMBER: 60/069,702  
PRIOR FILING DATE: December 16, 1997  
PRIOR APPLICATION NUMBER: 60/069,870  
PRIOR FILING DATE: December 17, 1997  
PRIOR APPLICATION NUMBER: 60/069,873  
PRIOR FILING DATE: December 17, 1997  
PRIOR APPLICATION NUMBER: 60/068,017  
PRIOR FILING DATE: December 18, 1997  
PRIOR APPLICATION NUMBER: 60/070,440  
PRIOR FILING DATE: January 5, 1998  
PRIOR APPLICATION NUMBER: 60/074,086  
PRIOR FILING DATE: February 9, 1998  
PRIOR APPLICATION NUMBER: 60/074,092  
PRIOR FILING DATE: February 9, 1998  
PRIOR APPLICATION NUMBER: 60/075,945  
PRIOR FILING DATE: February 25, 1998  
PRIOR APPLICATION NUMBER: 60/112,850  
PRIOR FILING DATE: December 16, 1998  
PRIOR APPLICATION NUMBER: 60/113,296  
PRIOR FILING DATE: December 22, 1998  
PRIOR APPLICATION NUMBER: 60/146,222  
PRIOR FILING DATE: July 28, 1999  
PRIOR APPLICATION NUMBER: PCT/US98/19330  
PRIOR FILING DATE: September 16, 1998  
PRIOR APPLICATION NUMBER: PCT/US98/25108  
PRIOR FILING DATE: December 1, 1998  
PRIOR APPLICATION NUMBER: 09/216,021  
PRIOR FILING DATE: December 16, 1998  
PRIOR APPLICATION NUMBER: 09/218,517  
PRIOR FILING DATE: December 22, 1998  
PRIOR APPLICATION NUMBER: 09/254,311  
PRIOR FILING DATE: March 3, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/12252  
PRIOR FILING DATE: June 22, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: September 15, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/28409  
PRIOR FILING DATE: NO. US20020165143A1ember 30, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/28313  
PRIOR FILING DATE: NO. US20020165143A1ember 30, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/28301  
PRIOR FILING DATE: December 1, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/30095  
PRIOR FILING DATE: December 16, 1999  
PRIOR APPLICATION NUMBER: PCT/US00/03565  
PRIOR FILING DATE: February 11, 2000  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: February 22, 2000  
PRIOR APPLICATION NUMBER: PCT/US00/05841  
PRIOR FILING DATE: March 2, 2000

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; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 49
; LENGTH: 1876
; TYPE: DNA
; ORGANISM: Homo Sapien
; US-09-944-403-49

Query Match      100.0%; Score 1876; DB 9; Length 1876;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 CTCCTTTTCCACAGCCAGCCTGACTCCTGGAGATTGTGAATAGCTCCATCCAGCCTG 60
QY 61 AGAAACAAGCCGGTGGCTGAGCCAGGCTGTGCACGAGCACCTGACGGGCCCAACAGAC 120
DB 61 AGAAACAAGCCGGTGGCTGAGCCAGGCTGTGCACGAGCACCTGACGGGCCCAACAGAC 120
QY 121 CCATGCTGCATCCAGAGACCTCCCTGGCCGGGGGATCTCTCTGGCTGTGCTCTGGCCC 180
DB 121 CCATGCTGCATCCAGAGACCTCCCTGGCCGGGGGATCTCTCTGGCTGTGCTCTGGCCC 180
QY 181 TCCTTGGACACCTGGGAGAGGTGTGCCACCCAGCTGCAGGAGCAGCTCCGATGG 240
DB 181 TCCTTGGACACCTGGGAGAGGTGTGCCACCCAGCTGCAGGAGCAGCTCCGATGG 240
QY 241 CCGGAGCCCTGAACAGAGAGAGTTCCTTGCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300
DB 241 CCGGAGCCCTGAACAGAGAGAGTTCCTTGCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300
QY 301 GCTGGTCCAGCCCTCGGGCTGACATGCGGAGGTGGAGTGGAGTGCAGAGCTGGCCC 360
DB 301 GCTGGTCCAGCCCTCGGGCTGACATGCGGAGGTGGAGTGGAGTGCAGAGCTGGCCC 360
QY 361 AACTGGCTCAAGCCAGGAGCCCTCTGTGTAATCCCAACCCAGCCTGGCATCCGGCC 420
DB 361 AACTGGCTCAAGCCAGGAGCCCTCTGTGTAATCCCAACCCAGCCTGGCATCCGGCC 420
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DB 421 TGTGGGCGACCTTGCAGTGGGCTGGAACATGCAGCTGCTGCCCGGGGCTTGGCGTCT 480
QY 481 TTGTTGAAGTGGTTCAGCCTATGTTTCAGAGGGGAGCGGTACAGCCAGCGGAGAG 540
DB 481 TTGTTGAAGTGGTTCAGCCTATGTTTCAGAGGGGAGCGGTACAGCCAGCGGAGAG 540
QY 541 AGTGTGCTCGCAAGCCACCTGCACCCACTACACGAGCTCGTGTGGGCCACCTCAAGCC 600
DB 541 AGTGTGCTCGCAAGCCACCTGCACCCACTACACGAGCTCGTGTGGGCCACCTCAAGCC 600
QY 601 AGCTGGGCTGTGGGCGGACCTGTGCTCTGCAGGCCAGACGCGATAGAAGCCTTTGTCT 660
DB 601 AGCTGGGCTGTGGGCGGACCTGTGCTCTGCAGGCCAGACGCGATAGAAGCCTTTGTCT 660
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DB 1021 ACACCTGTACCTGAGGATCGAGGAGCTGCTTTCATGCTCTTCAGAGGAGACACCT 1080
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DB 1201 CTGACAGTGAATTCGAGACCAAGGAATCTCTGATCGGGCTCACCTTACAGACCGCAAG 1260
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DB 1261 ACTCCTTCCGCTGGGCCACAGGGGAGACACAGGCTTACCAGTTCCTTGGGCGAGC 1320
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DB 1321 CTGACAAACACGGGCTGGTGTGGCTGAGTGTGCTTCCATGGGTTTGGCAACTTGGTGG 1380
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DB 1441 TCTGCCAGTTCGCGGAGGAGCAGATCTCCCGGTGGGGCCAGGGTCTGAGGCTGACCA 1500
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DB 1501 CATGGCTCCCTCGGCTGCGCTGGGAGCAGCGCTCTGCTTACTGCTTGGCCACCTGTCT 1560
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DB 1561 GGAACAAAGGGCCAGGTTAAGACACATGCTCTCATGTCCAAAGAGGTCTCAGACCTTGAC 1620
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DB 1741 GAAGGAGAGGAGACCGCCAGTGGTCCAAAGAGGCTCTCTCTTCCACCTGGCCAGACCC 1800
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QY 1861 CTGAAAAAAGAAAAA 1876
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Db 1861 CTGAAAAAAAAAAAAA 1876  
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## RESULT 3

US-09-944-896-49  
; Sequence 49, Application US/09944896  
; Patent No. US20020168715A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerlitsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gunney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kijavlin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE OF INVENTION: ACIDS ENCODING THE SAME  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/944,896  
; CURRENT FILING DATE: 2001-08-31  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998  
; PRIOR APPLICATION NUMBER: 60/074,086  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/074,092  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/075,945  
; PRIOR FILING DATE: February 25, 1998  
; PRIOR APPLICATION NUMBER: 60/112,850  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 60/113,296  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 60/146,222  
; PRIOR FILING DATE: July 28, 1999  
; PRIOR APPLICATION NUMBER: PCT/US98/19330  
; PRIOR FILING DATE: September 16, 1998  
; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: December 1, 1998  
; PRIOR APPLICATION NUMBER: 09/216,021  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 09/218,517

; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020168715A1  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: No. US20020168715A1  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December 1, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: December 16, 1999  
; PRIOR APPLICATION NUMBER: PCT/US00/03565  
; PRIOR FILING DATE: February 11, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: February 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: March 2, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/08439  
; PRIOR FILING DATE: March 30, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/14042  
; PRIOR FILING DATE: May 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/20710  
; PRIOR FILING DATE: July 28, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/32678  
; PRIOR FILING DATE: December 1, 2000  
; PRIOR APPLICATION NUMBER: PCT/US01/06520  
; PRIOR FILING DATE: February 28, 2001  
; NUMBER OF SEQ ID NOS: 120  
; SEQ ID NO 49  
; LENGTH: 1876  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-09-944-896-49

## Query Match

100.0%; Score 1876; DB 9; Length 1876;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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| Db | 1   | CTCTTTTGTCCACAGCCAGCCAGCTGCTGAGATGTGAATAGCTCCATCCAGCCTG    | 60  |
| QY | 61  | AGAAACAAGCCGGTGGCTGAGCCAGGCTGTGCACGGAGCACCTGACGGGGCCCAACAC | 120 |
| Db | 61  | AGAAACAAGCCGGTGGCTGAGCCAGGCTGTGCACGGAGCACCTGACGGGGCCCAACAC | 120 |
| QY | 121 | CCATGCTGCATCCAGAGACCTCCCTGGCGGGGGCAATCTCTGGCTGTGCTCTGGGCC  | 180 |
| Db | 121 | CCATGCTGCATCCAGAGACCTCCCTGGCGGGGGCAATCTCTGGCTGTGCTCTGGGCC  | 180 |
| QY | 181 | TCCTTGGCACCACTGGGAGAGGTGTGGCCACCCAGCTGCGAGGAGCAGGCTCCGATGG | 240 |
| Db | 181 | TCCTTGGCACCACTGGGAGAGGTGTGGCCACCCAGCTGCGAGGAGCAGGCTCCGATGG | 240 |
| QY | 241 | CCGGAGCCCTGAACAGAGAGAGTTCTTGTCTCTCTCCCTGCAACCCGCTGGCGCA    | 300 |
| Db | 241 | CCGGAGCCCTGAACAGAGAGAGTTCTTGTCTCTCTCCCTGCAACCCGCTGGCGCA    | 300 |
| QY | 301 | GCTGGTCCAGCCCTGGGCTGACATGGGAGGCTGGACTGGAGTGACAGCTGGGCC     | 360 |
| Db | 301 | GCTGGTCCAGCCCTGGGCTGACATGGGAGGCTGGACTGGAGTGACAGCTGGGCC     | 360 |
| QY | 361 | AACTGGCTCAAGCCAGGCGCCCTCTGTGGAATCCCAACCCAGCTGGCATCCGCGC    | 420 |
| Db | 361 | AACTGGCTCAAGCCAGGCGCCCTCTGTGGAATCCCAACCCAGCTGGCATCCGCGC    | 420 |
| QY | 421 | TGTGGCGCACCTGCAAGTGGGCTGGAACATGCAGCTGTGCTGGCGGGGCTTGGCTCT  | 480 |
| Db | 421 | TGTGGCGCACCTGCAAGTGGGCTGGAACATGCAGCTGTGCTGGCGGGGCTTGGCTCT  | 480 |







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Db 1201 CTGACAGTGAAGTTCAGACACAGGAACTTCTGATGGGCTCACTACAAAGACGCCAAGG 1260
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Qy 1321 CTGACAAACACAGGCTGGTGGCTGAGTGTGCTGCCATGGGGTTTGGCAACTGCGTGAGC 1380
Db 1321 CTGACAAACACAGGCTGGTGGCTGAGTGTGCTGCCATGGGGTTTGGCAACTGCGTGAGC 1380
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Db 1381 TGCAGGCTTCAAGTCCCTTCAACTGGAAGACACAGGCTGCCAAACCCGGAACCGTTTACA 1440
Qy 1441 TCTGCCAGTTTGGCCAGACAGACATCTCCGGTGGGGCCAGGGTCTTGAGGCTTGACCA 1500
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Qy 1501 CATGGCTCCCTCGCCTGGGAGACACCGGCTCTGCTTACCTGTCTGCCACCTGTCT 1560
Db 1501 CATGGCTCCCTCGCCTGGGAGACACCGGCTCTGCTTACCTGTCTGCCACCTGTCT 1560
Qy 1561 GGAACAAGGGCCAGGTTAAGACCAATGCTCATGTGCCAAGAGGCTCAGACCTTGCAC 1620
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Qy 1621 AATGCCAGAAGTTGGCAGAGAGACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGTT 1680
Db 1621 AATGCCAGAAGTTGGCAGAGAGACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGTT 1680
Qy 1681 AGAAGAAGCTGGGGCCCTTCGCTGCTGCTTTTGAATGGGAAGATGGGCTTCAATTAGATGGC 1740
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Db 1741 GAAGGAGAGGACACCGCCAGTGGTCCAAAGAGGCTGCTCTCTCTCCACCTGGCCCGAGACCC 1800
Qy 1801 TGTGGGGAGCGGAGCTTCCCTGTGCGATGAACCCAGCGGGTATTAAATTTATCAATCAG 1860
Db 1801 TGTGGGGAGCGGAGCTTCCCTGTGCGATGAACCCAGCGGGTATTAAATTTATCAATCAG 1860
Qy 1861 CTGAAAAAAGAAAAA 1876
Db 1861 CTGAAAAAAGAAAAA 1876
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RESULT 5
US-09-866-028-49
; Sequence 49, Application US/09866028
; Patent No. US20020058309A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/866, 028
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; CURRENT FILING DATE: 2001-05-25
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 49
; LENGTH: 1876
; TYPE: DNA
; ORGANISM: Homo Sapien
; US-09-866-028-49

Query Match      100.0%; Score 1876; DB 10; Length 1876;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTCCTTTTGTCCACGACCCAGCCTGACTCTCTGGAGATTGTGAATAGCTTCATCCAGCCTG 60
Db 1 CTCCTTTTGTCCACGACCCAGCCTGACTCTCTGGAGATTGTGAATAGCTTCATCCAGCCTG 60
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Db 61 AGAACAACGCGGGTGGCTGAGCAGGCTGTGACGAGACACCTGACGGGCCAACAAGAC 120
Qy 121 CCATGCTGCATCCAGAGACCTCCCTCGCGGGGGGCACTCTCTTGGCTGTGCTTGGCCC 180
Db 121 CCATGCTGCATCCAGAGACCTCCCTCGCGGGGGGCACTCTCTTGGCTGTGCTTGGCCC 180
Qy 181 TCCTTGGCACCACTGGGCGAGAGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGG 240
Db 181 TCCTTGGCACCACTGGGCGAGAGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGG 240
Qy 241 CCGGAGCCCTGACAGGAAGAGAGTTCTTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300
Db 241 CCGGAGCCCTGACAGGAAGAGAGTTCTTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300
Qy 301 GCTGGTTCACGCCCCCTCGCGCTGACATCGCGAGGCTGGAGTGGAGTGCAGACCTTGGCCC 360
Db 301 GCTGGTTCACGCCCCCTCGCGCTGACATCGCGAGGCTGGAGTGGAGTGCAGACCTTGGCCC 360
Qy 361 AACTGCTCAAGCCAGGCGACCCCTCTGTGGAATCCCAACCCAGCCTTGGCATCCGGCC 420
Db 361 AACTGCTCAAGCCAGGCGACCCCTCTGTGGAATCCCAACCCAGCCTTGGCATCCGGCC 420
Qy 421 TGTGGCGCACCCCTGCAAGTGGGCTGGAACATGCACTGCTGCCCGGGGCTTGGGCTTCT 480
Db 421 TGTGGCGCACCCCTGCAAGTGGGCTGGAACATGCACTGCTGCCCGGGGCTTGGGCTTCT 480
Qy 481 TTGTTGAAGTGTGAGCTTATGTTTGCAGAGGGGACGGGTACAGCCACGGGCGAGGAG 540
Db 481 TTGTTGAAGTGTGAGCTTATGTTTGCAGAGGGGACGGGTACAGCCACGGGCGAGGAG 540
Qy 541 AGTGTGCTCGCAAGCCACCTGCAACCTGACCCACTACAGCAGCTCGTGTGGGCGACCTCAAGCC 600
Db 541 AGTGTGCTCGCAAGCCACCTGCAACCTGACCCACTACAGCAGCTCGTGTGGGCGACCTCAAGCC 600
Qy 601 AGCTGGGCTGTGGGCGCACCTGTGCTGCGAGGCGACAGCAGCTAGAGAGCTTTGTCT 660
Db 601 AGCTGGGCTGTGGGCGCACCTGTGCTGCGAGGCGACAGCAGCTAGAGAGCTTTGTCT 660
Qy 661 GTGCTACTCCCCCGGAGGCAACTGGGAGTCAACGGGAAGACAATATATCCCTTATAAGA 720
Db 661 GTGCTACTCCCCCGGAGGCAACTGGGAGTCAACGGGAAGACAATATATCCCTTATAAGA 720
Qy 721 AGGCTGCTGTGTTGCTGTGACAGCAGTGTCTCAGGCTGCTTCAAGAGCTTGGGACC 780
Db 721 AGGCTGCTGTGTTGCTGTGACAGCAGTGTCTCAGGCTGCTTCAAGAGCTTGGGACC 780
Qy 781 ATCAGGGGGGCTGTGAGGTCCTCCAGGAATCTTGTGCGATGAGTGCAGAACCATG 840
Db 781 ATCAGGGGGGCTGTGAGGTCCTCCAGGAATCTTGTGCGATGAGTGCAGAACCATG 840
Qy 841 GAGCTCTCAACATCAGCACCTGCCACTGCCACTGTCCCTTGGCTTACAGGGCAGATACT 900
Db 841 GAGCTCTCAACATCAGCACCTGCCACTGCCACTGTCCCTTGGCTTACAGGGCAGATACT 900
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Qy 901 GCCAAGTGTGAGTGCAGCTGCTGTGTCACGGCGGGTTCGGAGGAGGAGTGTCTGT 960  
Dbb 901 GCCAAGTGTGAGTGCAGCTGCTGTGTCACGGCGGGTTCGGAGGAGGAGTGTCTGT 960  
Qy 961 GGGTCTGTGACATCGGCTACGGGGGAGCCAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1020  
Dbb 961 GGGTCTGTGACATCGGCTACGGGGGAGCCAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1020  
Qy 1021 ACACCTGTGACTGTGAGTGCAGGAGTGTCTGTCATGTGTCTTTCAGAGGAGGAGTGTCT 1080  
Dbb 1021 ACACCTGTGACTGTGAGTGCAGGAGTGTCTTTCATGTGTCTTTCAGAGGAGGAGTGTCT 1080  
Qy 1081 ATTACAGAGCCAGGATGAATGTCTGAGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1140  
Dbb 1081 ATTACAGAGCCAGGATGAATGTCTGAGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1140  
Qy 1141 AGAAGTGTGAGGAGTGTCTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1200  
Dbb 1141 AGAAGTGTGAGGAGTGTCTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1200  
Qy 1201 CTGACAGTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1260  
Dbb 1201 CTGACAGTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1260  
Qy 1261 ACTCTCTCCGCTGGCCAGGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1320  
Dbb 1261 ACTCTCTCCGCTGGCCAGGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1320  
Qy 1321 CTGACAGTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1380  
Dbb 1321 CTGACAGTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1380  
Qy 1381 TGCAGTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1440  
Dbb 1381 TGCAGTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1440  
Qy 1441 TGTGAGTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1500  
Dbb 1441 TGTGAGTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1500  
Qy 1501 CATGCTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1560  
Dbb 1501 CATGCTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1560  
Qy 1561 GAACAAGTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1620  
Dbb 1561 GAACAAGTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1620  
Qy 1621 AATGCCAGTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1680  
Dbb 1621 AATGCCAGTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1680  
Qy 1681 AGAAGTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1740  
Dbb 1681 AGAAGTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1740  
Qy 1741 GAAGGAGTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1800  
Dbb 1741 GAAGGAGTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1800  
Qy 1801 TGTGGGAGTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1860  
Dbb 1801 TGTGGGAGTGTGAGTGTGAGGAGTGTCTGAGGAGGAGGAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1860  
Qy 1861 CTGAAAAA 1876  
Dbb 1861 CTGAAAAA 1876

RESULT 6

US-09-944-449-49

; Sequence 49, Application US/09944449

; Patent No. US20020102647A1

## GENERAL INFORMATION:

APPLICANT: Baker, Kevin  
APPLICANT: Botstein, David  
APPLICANT: Eaton, Dan  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Gerritsen, Mary  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul  
APPLICANT: Grimaldi, Christopher  
APPLICANT: Gurney, Austin  
APPLICANT: Hillan, Kenneth  
APPLICANT: Kijavlin, Ivar  
APPLICANT: Napier, Mary  
APPLICANT: Roy, Margaret  
APPLICANT: Tumas, Daniel  
APPLICANT: Wood, William  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P2548P1C1  
CURRENT APPLICATION NUMBER: US/09/944, 449  
CURRENT FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 09/866, 028  
PRIOR FILING DATE: 2001-05-25  
PRIOR APPLICATION NUMBER: 60/067, 411  
PRIOR FILING DATE: December 3, 1997  
PRIOR APPLICATION NUMBER: 60/069, 334  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069, 335  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069, 278  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069, 425  
PRIOR FILING DATE: December 12, 1997  
PRIOR APPLICATION NUMBER: 60/069, 696  
PRIOR FILING DATE: December 16, 1997  
PRIOR APPLICATION NUMBER: 60/069, 694  
PRIOR FILING DATE: December 16, 1997  
PRIOR APPLICATION NUMBER: 60/069, 702  
PRIOR FILING DATE: December 16, 1997  
PRIOR APPLICATION NUMBER: 60/068, 017  
PRIOR FILING DATE: December 18, 1997  
PRIOR APPLICATION NUMBER: 60/070, 440  
PRIOR FILING DATE: January 5, 1998  
PRIOR APPLICATION NUMBER: 60/074, 086  
PRIOR FILING DATE: February 9, 1998  
PRIOR APPLICATION NUMBER: 60/074, 092  
PRIOR FILING DATE: February 9, 1998  
PRIOR APPLICATION NUMBER: 60/075, 945  
PRIOR FILING DATE: February 25, 1998  
PRIOR APPLICATION NUMBER: 60/112, 850  
PRIOR FILING DATE: December 16, 1998  
PRIOR APPLICATION NUMBER: 60/113, 296  
PRIOR FILING DATE: December 22, 1998  
PRIOR APPLICATION NUMBER: 60/146, 222  
PRIOR FILING DATE: July 28, 1999  
PRIOR APPLICATION NUMBER: PCT/US98/19330  
PRIOR FILING DATE: September 16, 1998  
PRIOR APPLICATION NUMBER: PCT/US98/25108  
PRIOR FILING DATE: December 1, 1998  
PRIOR APPLICATION NUMBER: 09/216, 021  
PRIOR FILING DATE: December 16, 1998  
PRIOR APPLICATION NUMBER: 09/218, 517  
PRIOR FILING DATE: December 22, 1998  
PRIOR APPLICATION NUMBER: 09/254, 311  
PRIOR FILING DATE: March 3, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/12252  
PRIOR FILING DATE: June 22, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/21090

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; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020102647A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020102647A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 49
; LENGTH: 1876
; TYPE: DNA
; ORGANISM: Homo Sapien
; us-09-944-449-49

Query Match      100.0%; Score 1876; DB 10; Length 1876;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTCCTTTGTCACAGCCAGCCGCTGACTCTCTGGAGATTGTAATAGCTTCATCAGCCCTG 60
Db 1 CTCCTTTGTCACAGCCAGCCGCTGACTCTCTGGAGATTGTAATAGCTTCATCAGCCCTG 60

Qy 61 AGAACAAGCCGGGTGGCTGAGCCAGGCTGTGACGGAGGACCTGACGGGGCCCAACAGAC 120
Db 61 AGAACAAGCCGGGTGGCTGAGCCAGGCTGTGACGGAGGACCTGACGGGGCCCAACAGAC 120

Qy 121 CCATGCTGCATCCAGAGACCTCCCTGGCCGGGGGACATCTCTGGCTGTGCTCTGGCCC 180
Db 121 CCATGCTGCATCCAGAGACCTCCCTGGCCGGGGGACATCTCTGGCTGTGCTCTGGCCC 180

Qy 181 TCCTTGGCACACCTGGGAGAGGTGTGGCCACCCAGCTGCAGGAGAGCTCGGATGG 240
Db 181 TCCTTGGCACACCTGGGAGAGGTGTGGCCACCCAGCTGCAGGAGAGCTCGGATGG 240

Qy 241 CCGGAGCCCTGAACAGGAAGGAGTTTCTGCTCTCTCCCTGCAACCCGCTCGCGCA 300
Db 241 CCGGAGCCCTGAACAGGAAGGAGTTTCTGCTCTCTCCCTGCAACCCGCTCGCGCA 300

Qy 301 GCTGGGTCCAGCCCTCGGGCTGACATGCGGAGGCTGGACTGGAGTGACAGCTTGGCCC 360
Db 301 GCTGGGTCCAGCCCTCGGGCTGACATGCGGAGGCTGGACTGGAGTGACAGCTTGGCCC 360

Qy 361 AACTGCTCAAGCCAGGAGCCCTCTGTGGAATCCCAACCCGAGCTTGCATCCGCCC 420
Db 361 AACTGCTCAAGCCAGGAGCCCTCTGTGGAATCCCAACCCGAGCTTGCATCCGCCC 420

Qy 421 TGTGGCGCACCTGCAAGTGGGTGGAACATGCAAGCTGTGCGCGGGCTTGGCGTCT 480
Db 421 TGTGGCGCACCTGCAAGTGGGTGGAACATGCAAGCTGTGCGCGGGCTTGGCGTCT 480

Qy 481 TTGTTGAAGTGTGACCTATGTTTTCAGAGGGGACGGGTACAGCCACCGCGCAGGAG 540
Db 481 TTGTTGAAGTGTGACCTATGTTTTCAGAGGGGACGGGTACAGCCACCGCGCAGGAG 540

Qy 541 AGTGTGCTCGCAACGCCACCTGCACCCACTACAGCGAGCTCGTGTGGCCACCTCAAGCC 600
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|----|------|---|------|
| Db | 1621 | AATGCCAGAACTTGGGCAGAGAGAGGCAGGAGGCCAGCTGAGGGCCACGGCAGTGAAGTGT | 1680 |
| Qy | 1681 | AGAAGAACTGGGGCCCTTCGGCTGCTTTTGATTTGGGAAGATGGGCTTCAATATAGATGCC | 1740 |
| Db | 1681 | AGAAGAACTGGGGCCCTTCGGCTGCTTTGATTTGGGAAGATGGGCTTCAATATAGATGCC  | 1740 |
| Qy | 1741 | GAAGAGAGGACACCGCAGTGGTCCAAAAGCGTCTCTCTTCCACCTTGGCCCGCAGACC    | 1800 |
| Db | 1741 | GAAGAGAGGACACCGCAGTGGTCCAAAAGCGTCTCTCTTCCACCTTGGCCCGCAGACC    | 1800 |
| Qy | 1801 | TGTGGGGCAGGGAGCTTCCCTGTGGCATGAACCCACGGGTATTAAATATATGAATCAG    | 1860 |
| Db | 1801 | TGTGGGGCAGGGAGCTTCCCTGTGGCATGAACCCACGGGTATTAAATATATGAATCAG    | 1860 |
| Qy | 1861 | CTGAAAAAAAAAAAAA  | 1876 |
| Db | 1861 | CTGAAAAAAAAAAAAA  | 1876 |

RESULT 7  
US-09-944-457-49  
US-09-944-457-49, Application US/09944457  
Sequence 49, Application US/09944457  
Patent No. US20020110859A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin  
APPLICANT: Botstein, David  
APPLICANT: Eaton, Dan  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Gerritsen, Mary  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul  
APPLICANT: Grimaldi, Christopher  
APPLICANT: Gurney, Austin  
APPLICANT: Hillan, Kenneth  
APPLICANT: Kljavin, Ivar  
APPLICANT: Napier, Mary  
APPLICANT: Roy, Margaret  
APPLICANT: Tumas, Daniel  
APPLICANT: Wood, William  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
ACIDS ENCODING THE SAME  
FILE REFERENCE: P2548P1C1  
CURRENT APPLICATION NUMBER: US/09/944,457  
CURRENT FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 09/866,028  
PRIOR FILING DATE: 2001-05-25  
PRIOR APPLICATION NUMBER: 60/067,411  
PRIOR FILING DATE: December 3, 1997  
PRIOR APPLICATION NUMBER: 60/069,334  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069,335  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069,278  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069,425  
PRIOR FILING DATE: December 12, 1997  
PRIOR APPLICATION NUMBER: 60/069,696  
PRIOR FILING DATE: December 16, 1997  
PRIOR APPLICATION NUMBER: 60/069,694  
PRIOR FILING DATE: December 16, 1997  
PRIOR APPLICATION NUMBER: 60/069,702  
PRIOR FILING DATE: December 16, 1997  
PRIOR APPLICATION NUMBER: 60/069,870  
PRIOR FILING DATE: December 17, 1997  
PRIOR APPLICATION NUMBER: 60/069,873  
PRIOR FILING DATE: December 17, 1997  
PRIOR APPLICATION NUMBER: 60/068,017  
PRIOR FILING DATE: December 18, 1997  
PRIOR APPLICATION NUMBER: 60/070,440  
PRIOR FILING DATE: January 5, 1998  
PRIOR APPLICATION NUMBER: 60/074,086  
PRIOR FILING DATE: February 9, 1998

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|----|------|---|------|
| Db | 181  | TCTTTGGCACCACCTGGCGAGAGGTGTGTCGCCACCCAGCTGCAGGAGCAGGCTCCGATGG   | 240  |
| QY | 241  | CCGGAGCCCTGAACAGAAAGAGAGATTCTTGCTCCTCTCCCTGCACAACCGCTGGCGCA     | 300  |
| Db | 241  | CCGGAGCCCTGAACAGAAAGAGAGATTCTTGCTCCTCTCCCTGCACAACCGCTGGCGCA     | 300  |
| QY | 301  | GCTTGGGTCCAGCCCCCTGGCGCTGACATGCGAGAGCTGGACTGGAGTGACAGCCTGGCCC   | 360  |
| Db | 301  | GCTTGGGTCCAGCCCCCTGGCGCTGACATGCGAGAGCTGGACTGGAGTGACAGCCTGGCCC   | 360  |
| QY | 361  | AACCTGGCTCAAAGCAGGCGAGCCCTCTGTGTGAATCCCAACCCCGAGCCTGSCATCCGGCC  | 420  |
| Db | 361  | AACCTGGCTCAAAGCAGGCGAGCCCTCTGTGTGAATCCCAACCCCGAGCCTGSCATCCGGCC  | 420  |
| QY | 421  | TGTGGCGCACCCCTGCAAGTGGGCTGGAACATGCACTGCTGCCCGCGGGCTTGGCGTCT     | 480  |
| Db | 421  | TGTGGCGCACCCCTGCAAGTGGGCTGGAACATGCACTGCTGCCCGCGGGCTTGGCGTCT     | 480  |
| QY | 481  | TTGTTGAAGTGTGCAGCCTATGTTTGCAGAGGGCGAGGTCACAGCCACGCGCAGGAG       | 540  |
| Db | 481  | TTGTTGAAGTGTGCAGCCTATGTTTGCAGAGGGCGAGGTCACAGCCACGCGCAGGAG       | 540  |
| QY | 541  | AGTGTGCTCGCAACGCCACCTCACCCCACTACACGACGCTGCTGTGGGCCACCTCAAGCC    | 600  |
| Db | 541  | AGTGTGCTCGCAACGCCACCTCACCCCACTACACGACGCTGCTGTGGGCCACCTCAAGCC    | 600  |
| QY | 601  | ASCTGGGCTGTGGCGGCACCTGTGCTGTGAGGCCACAGAGCATAGAAGCCTTTGTCT       | 660  |
| Db | 601  | ASCTGGGCTGTGGCGGCACCTGTGCTGTGAGGCCACAGAGCATAGAAGCCTTTGTCT       | 660  |
| QY | 661  | GTCCCTACTCCCCCGAGGCAACTGGGAGGTCAACGGGAAGACAATCATCCCTTATAAGA     | 720  |
| Db | 661  | GTCCCTACTCCCCCGAGGCAACTGGGAGGTCAACGGGAAGACAATCATCCCTTATAAGA     | 720  |
| QY | 721  | ASGGTGCCTGGTGTGCTCTGCCAAGCCAGTGCTCAGGCTGCTTCAAAGCCTGGGACC       | 780  |
| Db | 721  | ASGGTGCCTGGTGTGCTCTGCCAAGCCAGTGCTCAGGCTGCTTCAAAGCCTGGGACC       | 780  |
| QY | 781  | ATCAGGGGGGGTCTGTGAGGTCCCCAGGAATCCTTGTGCGATGAGCTGCCAGAACCATG     | 840  |
| Db | 781  | ATCAGGGGGGGTCTGTGAGGTCCCCAGGAATCCTTGTGCGATGAGCTGCCAGAACCATG     | 840  |
| QY | 841  | GAGCTCTAACATACAGACCTGCCACTGHCCTCCCTGGCTACACGGGCGAGATFACT        | 900  |
| Db | 841  | GAGCTCTAACATACAGACCTGCCACTGHCCTCCCTGGCTACACGGGCGAGATFACT        | 900  |
| QY | 901  | GCCAAGTGAGGTGCAGCCTGCACTGTGTGCAGCGCGGTTCCGGGAGGAGGAGTGCTCGT     | 960  |
| Db | 901  | GCCAAGTGAGGTGCAGCCTGCACTGTGTGCAGCGCGGTTCCGGGAGGAGGAGTGCTCGT     | 960  |
| QY | 961  | GCCTCTGTGACATPCGGCTACGGGGAGGCCAGTAGTGTGCCAACAAAGTGCAATTTCCCTTCC | 1020 |
| Db | 961  | GCCTCTGTGACATPCGGCTACGGGGAGGCCAGTAGTGTGCCAACAAAGTGCAATTTCCCTTCC | 1020 |
| QY | 1021 | ACACCTGTGACCTGAGGATPCAGCGAGACTGCTTCATGGTGTCTTCAGAGGCAGACACCT    | 1080 |
| Db | 1021 | ACACCTGTGACCTGAGGATPCAGCGAGACTGCTTCATGGTGTCTTCAGAGGCAGACACCT    | 1080 |
| QY | 1081 | ATTACAGACCCAGGATGAAATGTACAGAGAAAGCGGGGTGCTGGCCACAGTCAAGAGCC     | 1140 |
| Db | 1081 | ATTACAGACCCAGGATGAAATGTACAGAGAAAGCGGGGTGCTGGCCACAGTCAAGAGCC     | 1140 |
| QY | 1141 | AGAAAGTCAGGACATCCTCGCCTTCTATCTTGGGCGGCTGGAGACCAACAGAGGTGA       | 1200 |
| Db | 1141 | AGAAAGTCAGGACATCCTCGCCTTCTATCTTGGGCGGCTGGAGACCAACAGAGGTGA       | 1200 |
| QY | 1201 | CTGACAGTGACTTTCAGACACAGGAACCTTCTGGATCGGGCTCACCTACAAGACCGCCAAGG  | 1260 |
| Db | 1201 | CTGACAGTGACTTTCAGACACAGGAACCTTCTGGATCGGGCTCACCTACAAGACCGCCAAGG  | 1260 |
| QY | 1261 | ACTCCTTCGCTGGGCGCACAGGGGAGCACAGGCGTTTACACAGTTTTTGGCCTTTGGCGACG  | 1320 |
| Db | 1261 | ACTCCTTCGCTGGGCGCACAGGGGAGCACAGGCGTTTACACAGTTTTTGGCCTTTGGCGACG  | 1320 |

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RESULT 8
US-09-945-587-49
: Sequence 49, Application US/09945587
: Patent No. US20020127643A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin
: APPLICANT: Botstein, David
: APPLICANT: Eaton, Dan
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Flivarov, Ellen
: APPLICANT: Geritsen, Mary
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul
: APPLICANT: Grimaldi, Christopher
: APPLICANT: Gurney, Austin
: APPLICANT: Hillan, Kenneth
: APPLICANT: Kljavin, Ivar
: APPLICANT: Napier, Mary
: APPLICANT: Roy, Margaret
: APPLICANT: Tumas, Daniel
: APPLICANT: Wood, William
: TITLE OF INVENTION: SECRETED AND TR
: TITLE OF INVENTION: ACIDS ENCODING
: FILE REFERENCE: P2548P1C1
: CURRENT APPLICATION NUMBER: US/09/9-26
: CURRENT FILING DATE: 2001-09-26
: PRIOR APPLICATION NUMBER: 09/866,021
: PRIOR FILING DATE: 2001-05-25
: PRIOR APPLICATION NUMBER: 60/067,411
: PRIOR FILING DATE: December 3, 1997
: PRIOR APPLICATION NUMBER: 60/069,333

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; PRIOR FILING DATE: December 11, 1997  
 ; PRIOR APPLICATION NUMBER: 60/059335  
 ; PRIOR FILING DATE: December 11, 1997  
 ; PRIOR APPLICATION NUMBER: 60/059 278  
 ; PRIOR FILING DATE: December 11, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,425  
 ; PRIOR FILING DATE: December 12, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,696  
 ; PRIOR FILING DATE: December 16, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,694  
 ; PRIOR FILING DATE: December 16, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,702  
 ; PRIOR FILING DATE: December 16, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,870  
 ; PRIOR FILING DATE: December 17, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,873  
 ; PRIOR FILING DATE: December 17, 1997  
 ; PRIOR APPLICATION NUMBER: 60/068,017  
 ; PRIOR FILING DATE: December 18, 1997  
 ; PRIOR APPLICATION NUMBER: 60/070,440  
 ; PRIOR FILING DATE: January 5, 1998  
 ; PRIOR APPLICATION NUMBER: 60/074,086  
 ; PRIOR FILING DATE: February 9, 1998  
 ; PRIOR APPLICATION NUMBER: 60/074,092  
 ; PRIOR FILING DATE: February 9, 1998  
 ; PRIOR APPLICATION NUMBER: 60/075,945  
 ; PRIOR FILING DATE: February 25, 1998  
 ; PRIOR APPLICATION NUMBER: 60/112,850  
 ; PRIOR FILING DATE: December 16, 1998  
 ; PRIOR APPLICATION NUMBER: 60/113,296  
 ; PRIOR FILING DATE: December 22, 1998  
 ; PRIOR APPLICATION NUMBER: 60/146,222  
 ; PRIOR FILING DATE: July 28, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US98/19330  
 ; PRIOR FILING DATE: September 16, 1998  
 ; PRIOR APPLICATION NUMBER: PCT/US98/25108  
 ; PRIOR FILING DATE: December 1, 1998  
 ; PRIOR APPLICATION NUMBER: 09/216,021  
 ; PRIOR FILING DATE: December 16, 1998  
 ; PRIOR APPLICATION NUMBER: 09/218,517  
 ; PRIOR FILING DATE: December 22, 1998  
 ; PRIOR APPLICATION NUMBER: 09/254,311  
 ; PRIOR FILING DATE: March 3, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/12252  
 ; PRIOR FILING DATE: June 22, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090  
 ; PRIOR FILING DATE: September 15, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28409  
 ; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313  
 ; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28301  
 ; PRIOR FILING DATE: December 1, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095  
 ; PRIOR FILING DATE: December 16, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US00/03565  
 ; PRIOR FILING DATE: February 11, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414  
 ; PRIOR FILING DATE: February 22, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/05841  
 ; PRIOR FILING DATE: March 2, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/08439  
 ; PRIOR FILING DATE: March 30, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/14042  
 ; PRIOR FILING DATE: May 22, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/20710  
 ; PRIOR FILING DATE: July 28, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/32678  
 ; PRIOR FILING DATE: December 1, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US01/06520  
 ; PRIOR FILING DATE: February 26, 2001  
 ; NUMBER OF SEQ ID NOS: 120  
 ; SEQ ID NO 49

; LENGTH: 1876  
 ; TYPE: DNA  
 ; ORGANISM: Homo Sapien  
 ; US-09-945-587-49  
 Query Match 100.0%; Score 1876; DB 10; Length 1876;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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 DB 1 CTCCTTTTGTCCACGAGCCAGCCTGACTCCTGTGGAGATTGTGAATAGTCCATCCAGCCTG 60  
 QY 61 AGAACAAGCCGGTGGCTGAGCCAGGCTGTCACGAGCAGCCTGAGCGGCCCAACAGAC 120  
 DB 61 AGAACAAGCCGGTGGCTGAGCCAGGCTGTCACGAGCAGCCTGAGCGGCCCAACAGAC 120  
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 DB 121 CCATGCTGCATCCAGAGACCTCCCTGGCCGGGGGCGATCTCTCTGGCTGTGTCTCTGGCCC 180  
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 DB 181 TCCTTGGCAACACCTGGGCGAGAGGTGTGGCCACCCAGCTGCAGGAGCAGCTCCGATGG 240  
 QY 241 CCGGAGCCCTGAACAGAGAGAGAGTTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300  
 DB 241 CCGGAGCCCTGAACAGAGAGAGAGTTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300  
 QY 301 GCTGGGTCAGCCCTCGCGCTGACATCGGAGGCTGGACTGGAGTGACAGCCTGGGCC 360  
 DB 301 GCTGGGTCAGCCCTCGCGCTGACATCGGAGGCTGGACTGGAGTGACAGCCTGGGCC 360  
 QY 361 AACTGGGTCAGCCAGGCGAGCCCTCTCTGTGAATCCAAACCCAGCCTGGCATCCGGCC 420  
 DB 361 AACTGGGTCAGCCAGGCGAGCCCTCTCTGTGAATCCAAACCCAGCCTGGCATCCGGCC 420  
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Db 1861 CTGAAAAAANAANA 1876

## RESULT 9

US-09-945-015-49

; Sequence 49, Application US/09945015

; Patent No. US20020132768A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin

; APPLICANT: Botstein, David

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kljavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/945,015  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998  
; PRIOR APPLICATION NUMBER: 60/074,086  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/074,092  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/075,945  
; PRIOR FILING DATE: February 25, 1998  
; PRIOR APPLICATION NUMBER: 60/112,850  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 60/113,296  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 60/146,222  
; PRIOR FILING DATE: July 28, 1999  
; PRIOR APPLICATION NUMBER: PCT/US98/19330  
; PRIOR FILING DATE: September 16, 1998  
; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: December 1, 1998  
; PRIOR APPLICATION NUMBER: 09/216,021  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 09/218,517  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313



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; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 49
; LENGTH: 1876
; TYPE: DNA
; ORGANISM: Homo Sapien
; US-09-945-015-49

Query Match      100.0%; Score 1876; DB 10; Length 1876;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 CTCCTTTGTCACACAGCCAGCCGCTGACCTCTGAGATTTGTAATAGCTCCATCCAGCCCTG 60
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RESULT 10  
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; Sequence 49, Application US/09944396  
; Patent No. US20020132981A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kijaviv, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548PIC1  
; CURRENT APPLICATION NUMBER: US/09/944,396  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
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; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
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; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
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; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998  
; PRIOR APPLICATION NUMBER: 60/074,086  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/074,092  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/075,945  
; PRIOR FILING DATE: February 25, 1998

; PRIOR APPLICATION NUMBER: 60/112,850  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 60/113,296  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 60/146,222  
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; PRIOR FILING DATE: September 16, 1998  
; PRIOR APPLICATION NUMBER: PCT/US98/25108  
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; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020132981A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: No. US20020132981A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December 1, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
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; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: March 2, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/08439  
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; PRIOR FILING DATE: July 28, 2000  
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; PRIOR FILING DATE: December 1, 2000  
; PRIOR APPLICATION NUMBER: PCT/US01/06520  
; PRIOR FILING DATE: February 28, 2001  
; NUMBER OF SEQ ID NOS: 120  
; SEQ ID NO 49  
; LENGTH: 1876  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-09-944-396-49  
Query Match 100.0%; Score 1876; DB 10; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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QY 1261 ACTCCTTCCGCTGGGCGACAGGAGGAGCAGCGCTTCCAGAGTTTGTGCTTTGGGCGAGC 1320  
Db 1261 ACTCCTTCCGCTGGGCGACAGGAGGAGCAGCGCTTCCAGAGTTTGTGCTTTGGGCGAGC 1320  
QY 1321 CTGACAAACAGCGCTGTGTGGCTGAGTGTGCCATCGGGTTTGGCAACTCGGTGGAGC 1380  
Db 1321 CTGACAAACAGCGCTGTGTGGCTGAGTGTGCCATCGGGTTTGGCAACTCGGTGGAGC 1380

QY 1381 TGCAGGCTTACGCTGCTTCACTGGAACGACGAGCTGCAAAACCCGAAACCGTTACA 1440  
Db 1381 TGCAGGCTTACGCTGCTTCACTGGAACGACGAGCTGCAAAACCCGAAACCGTTACA 1440  
QY 1441 TCTGCCAGTTTCCCGCAGGAGCACATCTCCGGTGGGGCCCGAGGCTCTGAGGCTGACCA 1500  
Db 1441 TCTGCCAGTTTCCCGCAGGAGCACATCTCCGGTGGGGCCCGAGGCTCTGAGGCTGACCA 1500  
QY 1501 CATGGCTCCCTCGCTGCCCTGGGAGCAGCGGCTCTGCTTACCTTGTCTGCCACCTGTCT 1560  
Db 1501 CATGGCTCCCTCGCTGCCCTGGGAGCAGCGGCTCTGCTTACCTTGTCTGCCACCTGTCT 1560  
QY 1561 GGAACAAGGGCCAGGTTAAGACACATGCTCATGTCCAAAGAGGTCTCAGACCTTGGAC 1620  
Db 1561 GGAACAAGGGCCAGGTTAAGACACATGCTCATGTCCAAAGAGGTCTCAGACCTTGGAC 1620  
QY 1621 AATGCCAGAAGTTGGGCAGAGAGAGGAGGCCAGTGTGAGGCGGAGGAGTGT 1680  
Db 1621 AATGCCAGAAGTTGGGCAGAGAGAGGAGGCCAGTGTGAGGCGGAGGAGTGT 1680  
QY 1681 AGAACAAGCTGGGGCCCTTTCGCTGCTTGTGATGGGAAGATGGGCTTCAATTAGATGGC 1740  
Db 1681 AGAACAAGCTGGGGCCCTTTCGCTGCTTGTGATGGGAAGATGGGCTTCAATTAGATGGC 1740  
QY 1741 GAAGGAGAGGACACCGCCAGTGGTCCAAAGAGGTGCTCTTCCACTGTGCCCCAGACCC 1800  
Db 1741 GAAGGAGAGGACACCGCCAGTGGTCCAAAGAGGTGCTCTTCCACTGTGCCCCAGACCC 1800  
QY 1801 TGTGGGGCAGCGAGCTTCCCTGTGCATGAACCCACGCGGTATTAAATTTATGAATCAG 1860  
Db 1801 TGTGGGGCAGCGAGCTTCCCTGTGCATGAACCCACGCGGTATTAAATTTATGAATCAG 1860  
QY 1861 CTGAAAAAAGGAAAAA 1876  
Db 1861 CTGAAAAAAGGAAAAA 1876

RESULT 11

US-09-944-097-49

; Sequence 49, Application US/09944097  
; Patent No. US20020133675A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Boitein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kljavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/944, 097  
; CURRENT FILING DATE: 2001-08-31  
; PRIOR APPLICATION NUMBER: 09/866, 028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/069, 334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069, 278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069, 425



Db 1021 ACACCTGTGACCTGAGGATCGACGAGACCTGCTTCTGCTGCTTCTGAGAGCAGACACCT 1080  
QY 1081 ATTACAGAGCAGGATGAATATGTCAGAGAAAGCGGGGTGCTGCCCCAGATCAAGAGCC 1140  
Db 1081 ATTACAGAGCAGGATGAATATGTCAGAGAAAGCGGGGTGCTGCCCCAGATCAAGAGCC 1140  
QY 1141 AGAAAGTGCAGGACATCCTCGCCCTTCTATCTGCGCCGCTGAGACCAACAGAGGTGA 1200  
Db 1141 AGAAAGTGCAGGACATCCTCGCCCTTCTATCTGCGCCGCTGAGACCAACAGAGGTGA 1200  
QY 1201 CTGACAGTACTTCGAGACCAAGAACTTCTGATGCGGCTCACCCTACCAAGACCGCCAGG 1260  
Db 1201 CTGACAGTACTTCGAGACCAAGAACTTCTGATGCGGCTCACCCTACCAAGACCGCCAGG 1260  
QY 1261 ACTCCTTCCGCTGGCCACAGGGAGCACCAGGCTTACCAAGTTTGGCTTTGGCGAGC 1320  
Db 1261 ACTCCTTCCGCTGGCCACAGGGAGCACCAGGCTTACCAAGTTTGGCTTTGGCGAGC 1320  
QY 1321 CTGACAAACCCAGGCTGGTGTGCTGAGTGTGCTGCTGATGGCTTGGCAACTGCGTGGAGC 1380  
Db 1321 CTGACAAACCCAGGCTGGTGTGCTGAGTGTGCTGATGGCTTGGCAACTGCGTGGAGC 1380  
QY 1381 TGCAGGCTTCAGCTGCTTCAACTGGAACGACGAGCTGCAAAACCCGAAACCGTTTACA 1440  
Db 1381 TGCAGGCTTCAGCTGCTTCAACTGGAACGACGAGCTGCAAAACCCGAAACCGTTTACA 1440  
QY 1441 TCTGCCAGTTTGGCCAGGACACATCTCCCGTGGGCGCCAGGCTCTGAGGCCCTGACCA 1500  
Db 1441 TCTGCCAGTTTGGCCAGGACACATCTCCCGTGGGCGCCAGGCTCTGAGGCCCTGACCA 1500  
QY 1501 CATGGCTCCCTCGCTGCTGGGAGCACCGCTGCTGCTTACCTGTCTGCCACCTGTCT 1560  
Db 1501 CATGGCTCCCTCGCTGCTGGGAGCACCGCTGCTGCTTACCTGTCTGCCACCTGTCT 1560  
QY 1561 GGAACAGGGCCAGGTTAAGACCAACATACCTCATGTCCTCAAGAGAGTCTCAGACCTTGCAC 1620  
Db 1561 GGAACAGGGCCAGGTTAAGACCAACATACCTCATGTCCTCAAGAGAGTCTCAGACCTTGCAC 1620  
QY 1621 AATCCAGAGTTGGCAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGT 1680  
Db 1621 AATCCAGAGTTGGCAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGT 1680  
QY 1681 AGAAGAGCTGGGCGCTTCCGCTGCTTTTGTATGGGAGATGGGCTTCAATTAGATGGC 1740  
Db 1681 AGAAGAGCTGGGCGCTTCCGCTGCTTTTGTATGGGAGATGGGCTTCAATTAGATGGC 1740  
QY 1741 GAAGAGAGGACACCGCCAGTGGTCCAAAAGGCTGCTCTTCCACCTGGGCCGAGCC 1800  
Db 1741 GAAGAGAGGACACCGCCAGTGGTCCAAAAGGCTGCTCTTCCACCTGGGCCGAGCC 1800  
QY 1801 TGTGGGCGAGGAGCTTCCCTGTGGCATGACCCCGAGGCTATTAAATTTATGATCAG 1860  
Db 1801 TGTGGGCGAGGAGCTTCCCTGTGGCATGACCCCGAGGCTATTAAATTTATGATCAG 1860  
QY 1861 CTGAAAAAATAAAAAA 1876  
Db 1861 CTGAAAAAATAAAAAA 1876

## RESULT 12

US-09-944-432-49  
; Sequence 49, Application US/09944432  
; Patent No. US20020142419A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher

; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kljavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/944,432  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,378  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998  
; PRIOR APPLICATION NUMBER: 60/074,086  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/074,092  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/075,945  
; PRIOR FILING DATE: February 25, 1998  
; PRIOR APPLICATION NUMBER: 60/112,850  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 60/113,296  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 60/146,222  
; PRIOR FILING DATE: July 28, 1999  
; PRIOR APPLICATION NUMBER: PCT/US98/19330  
; PRIOR FILING DATE: September 15, 1998  
; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: December 1, 1998  
; PRIOR APPLICATION NUMBER: 09/216,021  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 09/218,517  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020142419A1, September 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: No. US20020142419A1, September 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December 1, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: December 16, 1999  
; PRIOR APPLICATION NUMBER: PCT/US00/03565

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; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 49

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Query Match      100.0%; Score 1876; DB 10; Length 1876;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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[illegible]



QY 361 AACTGGCTCAAGCAGGCGACCCCTCTCTGGAATCCCAACCCGAGCCTGGCATCCGGCC 420  
Db 361 AACTGGCTCAAGCAGGCGACCCCTCTCTGGAATCCCAACCCGAGCCTGGCATCCGGCC 420  
QY 421 TGTGGCGACCCCTGCAAGTGGGCTGGAACATGACAGCTGCTGCCCGGGGCTTGGGCTCT 480  
Db 421 TGTGGCGACCCCTGCAAGTGGGCTGGAACATGACAGCTGCTGCCCGGGGCTTGGGCTCT 480  
QY 481 TTGTTGAAGTGGTCAAGCCTATGTTTTCAGAGGGGACAGGGTACAGCCACGCGGAGGAG 540  
Db 481 TTGTTGAAGTGGTCAAGCCTATGTTTTCAGAGGGGACAGGGTACAGCCACGCGGAGGAG 540  
QY 541 AGTGTGCTCGAAGCCACCTGACACCCACTACACGCACTGCTGAGGCTGCTTCAAGCC 600  
Db 541 AGTGTGCTCGAAGCCACCTGACACCCACTACACGCACTGCTGAGGCTGCTTCAAGCC 600  
QY 601 AGCTGGGCTGTGGCGGACCTGTGCTCTGAGGGCCACACGCGATAGAGCCTTTGCT 660  
Db 601 AGCTGGGCTGTGGCGGACCTGTGCTCTGAGGGCCACACGCGATAGAGCCTTTGCT 660  
QY 661 GTGCTTACTCCCGGAGGCAACTGGAGGTCAAGGGGAAGACATATCCCTATAAGA 720  
Db 661 GTGCTTACTCCCGGAGGCAACTGGAGGTCAAGGGGAAGACATATCCCTATAAGA 720  
QY 721 AGGTGCTGTGCTGCTGTCACAGCCAGTGTCTAGGCTGCTTCAAGCCTGGGACC 780  
Db 721 AGGTGCTGTGCTGCTGTCACAGCCAGTGTCTAGGCTGCTTCAAGCCTGGGACC 780  
QY 781 ATGACAGGGGCTGTGTGAGTCCCGGAGGATCTTGTGCGATGAGTGCAGAACCATG 840  
Db 781 ATGACAGGGGCTGTGTGAGTCCCGGAGGATCTTGTGCGATGAGTGCAGAACCATG 840  
QY 841 GAGCTCTCAACATCAGACCTGCCACTGCTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900  
Db 841 GAGCTCTCAACATCAGACCTGCCACTGCTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900  
QY 901 GCCAAGTGAAGTGCAGCTGCAGTGTGTCACGCGCGGTTCGGGAGGAGAGTGTCTGT 960  
Db 901 GCCAAGTGAAGTGCAGCTGCAGTGTGTCACGCGCGGTTCGGGAGGAGAGTGTCTGT 960  
QY 961 GCGTCTGTGATCGGCTACGGGAGGAGCCAGTGTGCCACCAAGTGTGCTTCCCTTCC 1020  
Db 961 GCGTCTGTGATCGGCTACGGGAGGAGCCAGTGTGCCACCAAGTGTGCTTCCCTTCC 1020  
QY 1021 ACACCTGTGACCTGAGATCGAGGACACTGCTTCATGCTGCTTCAGAGCGACACCT 1080  
Db 1021 ACACCTGTGACCTGAGATCGAGGACACTGCTTCATGCTGCTTCAGAGCGACACCT 1080  
QY 1081 ATTACAGAGCCAGGATGAATGTACAGAGAAAGCGGGGTGCTGGCCAGATCAAGAGCC 1140  
Db 1081 ATTACAGAGCCAGGATGAATGTACAGAGAAAGCGGGGTGCTGGCCAGATCAAGAGCC 1140  
QY 1141 AGAAAGTGCAGGACATCCCTCGCTTCTATCTGGGCGGCTGGAGACCAACAGGTGA 1200  
Db 1141 AGAAAGTGCAGGACATCCCTCGCTTCTATCTGGGCGGCTGGAGACCAACAGGTGA 1200  
QY 1201 CTGACAGTGACTTCGAGACAGGAACTTCGATCGGGCTCACTTACAGACCCCAAGG 1260  
Db 1201 CTGACAGTGACTTCGAGACAGGAACTTCGATCGGGCTCACTTACAGACCCCAAGG 1260  
QY 1261 ACTCCTTCGGCTGGGCGACAGGGGAGCACCAGGCTTTCACAGTTTTCCTTTGGGAGC 1320  
Db 1261 ACTCCTTCGGCTGGGCGACAGGGGAGCACCAGGCTTTCACAGTTTTCCTTTGGGAGC 1320  
QY 1321 CTGACAAACAGGGCTGGTGTGCTGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1380  
Db 1321 CTGACAAACAGGGCTGGTGTGCTGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1380  
QY 1381 TCGAGGCTTCAGTGTCTTCACTGGAACAGCAGGCTGCAAAACCCGAACCGTTACA 1440  
Db 1381 TCGAGGCTTCAGTGTCTTCACTGGAACAGCAGGCTGCAAAACCCGAACCGTTACA 1440  
QY 1441 TCTGCCAGTTTCCCAAGGACACATCTCCGGTGGGCGCCCGGCTGAGGCTGACCA 1500

Db 1441 TCTGCCAGTTTCCCAAGGACACATCTCCCGTGGGCGCCAGGCTCTGAGGCTTGACCA 1500  
QY 1501 CATGGCTCCCTGCGCTGCGCTGCGCTGGGAGCACCGGCTGCTGCTTACCTTGTCTGCCCACCTGTCT 1560  
Db 1501 CATGGCTCCCTGCGCTGCGCTGCGCTGGGAGCACCGGCTGCTGCTTACCTTGTCTGCCCACCTGTCT 1560  
QY 1561 GGAACAGGCGCCAGGTTAAGACACACATGCCTCATGTCCAAAGAGTCTCAGACCTTGAC 1620  
Db 1561 GGAACAGGCGCCAGGTTAAGACACACATGCCTCATGTCCAAAGAGTCTCAGACCTTGAC 1620  
QY 1621 AATGCCAGAAAGTTGGGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGT 1680  
Db 1621 AATGCCAGAAAGTTGGGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGT 1680  
QY 1681 AGAAGAGCTGGGGCCCTTCCCTGCTGCTTGTGATTTGGGAAGATGGGCTTCAATAGATGGC 1740  
Db 1681 AGAAGAGCTGGGGCCCTTCCCTGCTGCTTGTGATTTGGGAAGATGGGCTTCAATAGATGGC 1740  
QY 1741 GAAGGAGAGACACCGCCAGTGTGTCCAAAAGGCTGCTCTCTCCACCTGGCCAGACCC 1800  
Db 1741 GAAGGAGAGACACCGCCAGTGTGTCCAAAAGGCTGCTCTCTCCACCTGGCCAGACCC 1800  
QY 1801 TGTGGGCGAGCGAGTTCCTTGTGCGATGAACCCACCGGCTTATAAATATGAATCAG 1860  
Db 1801 TGTGGGCGAGCGAGTTCCTTGTGCGATGAACCCACCGGCTTATAAATATGAATCAG 1860  
QY 1861 CTGAAAAAANAANA 1876  
Db 1861 CTGAAAAAANAANA 1876

## RESULT 14

US-09-944-654-49  
; Sequence 49, Application US/09944654  
; Patent No. US20020142959A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kljavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/944, 654  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866, 028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067, 411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069, 334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069, 335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069, 278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069, 425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069, 696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069, 694



|      |   |      |
|------|---|------|
| 1    | CTCTTTTGTCCACCGCCGCTGACTCTGAGATTGTGAATAGCTCCATCCAGCCTG      | 60   |
| 61   | AGAAACAAGCCGGTGGCTGAGCCAGGCTGTGCACGGAGCACCTGACGGGCCCAACAGAC | 120  |
| 61   | AGAAACAAGCCGGTGGCTGAGCCAGGCTGTGCACGGAGCACCTGACGGGCCCAACAGAC | 120  |
| 121  | CCATGCTGCATCCAGAGACCTCCCTTGGCCGGGGGATCTCCCTGGCTGTGCTCTCGGCC | 180  |
| 121  | CCATGCTGCATCCAGAGACCTCCCTTGGCCGGGGGATCTCCCTGGCTGTGCTCTCGGCC | 180  |
| 181  | TCCTTTGGCACCACTGGGAGAGGTGTGCCACCCAGCTGCAGGACGAGCTCCGATGG    | 240  |
| 181  | TCCTTTGGCACCACTGGGAGAGGTGTGCCACCCAGCTGCAGGACGAGCTCCGATGG    | 240  |
| 241  | CGGAGCCCTGACAGAGAGGAGTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT  | 300  |
| 241  | CGGAGCCCTGACAGAGAGGAGTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT  | 300  |
| 301  | GCTGGTCCAGCCCTCGGCTGACATCGGAGGCTGGAGTGCAGTGCAGCTGGGCC       | 360  |
| 301  | GCTGGTCCAGCCCTCGGCTGACATCGGAGGCTGGAGTGCAGTGCAGCTGGGCC       | 360  |
| 361  | AACTGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCAGCTGCATCCGCC      | 420  |
| 361  | AACTGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCAGCTGCATCCGCC      | 420  |
| 421  | TGTGGCGCACCTGCAAGTGGCTGGAACATGCAGCTGCTGCCCGGGCTTGGCGTCT     | 480  |
| 421  | TGTGGCGCACCTGCAAGTGGCTGGAACATGCAGCTGCTGCCCGGGCTTGGCGTCT     | 480  |
| 481  | TTCTTGAAGTGGTCAAGTGGCTGGAACATGCAGCTGCTGCCCGGGCTTGGCGTCT     | 540  |
| 481  | TTCTTGAAGTGGTCAAGTGGCTGGAACATGCAGCTGCTGCCCGGGCTTGGCGTCT     | 540  |
| 541  | AGTGTGCTCCAGCCAGCCAGCTGCACCCACTACAGCAGCTCGTGTGGCCACTCAAGC   | 600  |
| 541  | AGTGTGCTCCAGCCAGCCAGCTGCACCCACTACAGCAGCTCGTGTGGCCACTCAAGC   | 600  |
| 601  | AGTGTGCTGTTGGCGGCACTGTGCTTGCAGGCGCAGACGATAGAAGCTTGTCT       | 660  |
| 601  | AGTGTGCTGTTGGCGGCACTGTGCTTGCAGGCGCAGACGATAGAAGCTTGTCT       | 660  |
| 661  | GTGCTACTCCCCGGAGGCACTGGGAGGTCAACGGGAAGACATATCCCTTATAAG      | 720  |
| 661  | GTGCTACTCCCCGGAGGCACTGGGAGGTCAACGGGAAGACATATCCCTTATAAG      | 720  |
| 721  | AGGTGCTGTGTGCTCTGCTCCAGCAGTGTCTCAGGCTGCTTCAAGGCTGGGACC      | 780  |
| 721  | AGGTGCTGTGTGCTCTGCTCCAGCAGTGTCTCAGGCTGCTTCAAGGCTGGGACC      | 780  |
| 781  | ATGAGGGGGCTGTGTGAGTCCCGAGGATCCCTTGTGCGCATGAGCTGCCAGAACATG   | 840  |
| 781  | ATGAGGGGGCTGTGTGAGTCCCGAGGATCCCTTGTGCGCATGAGCTGCCAGAACATG   | 840  |
| 841  | GACGTCTCAACATCAGCACCTGCCACTGCTCCCTGCTCCCTGCTACACGGGAGATCT   | 900  |
| 841  | GACGTCTCAACATCAGCACCTGCCACTGCTCCCTGCTCCCTGCTACACGGGAGATCT   | 900  |
| 901  | GCCAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG   | 960  |
| 901  | GCCAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG   | 960  |
| 961  | CGTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCACCAAGTGTCTTCCCTTCC      | 1020 |
| 961  | CGTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCACCAAGTGTCTTCCCTTCC      | 1020 |
| 1021 | ACACCTGTGACCTGAGGATCGAGGAGTGTCTTCTGCTTCTTCTTCTTCTTCTTCTTCT  | 1080 |
| 1021 | ACACCTGTGACCTGAGGATCGAGGAGTGTCTTCTGCTTCTTCTTCTTCTTCTTCTTCT  | 1080 |
| 1081 | ATTACAGAGCCAGGATGAATGTACAGAAAGCGGGGTGCTGGCCCAATCAAGAGCC     | 1140 |
| 1081 | ATTACAGAGCCAGGATGAATGTACAGAAAGCGGGGTGCTGGCCCAATCAAGAGCC     | 1140 |

|    |      |   |      |
|----|------|---|------|
| Db | 1    | CTCTTTTGTCCACCGCCGCTGACTCTGAGATTGTGAATAGCTCCATCCAGCCTG      | 60   |
| Qy | 61   | AGAAACAAGCCGGTGGCTGAGCCAGGCTGTGCACGGAGCACCTGACGGGCCCAACAGAC | 120  |
| Db | 61   | AGAAACAAGCCGGTGGCTGAGCCAGGCTGTGCACGGAGCACCTGACGGGCCCAACAGAC | 120  |
| Qy | 121  | CCATGCTGCATCCAGAGACCTCCCTTGGCCGGGGGATCTCCCTGGCTGTGCTCTCGGCC | 180  |
| Db | 121  | CCATGCTGCATCCAGAGACCTCCCTTGGCCGGGGGATCTCCCTGGCTGTGCTCTCGGCC | 180  |
| Qy | 181  | TCCTTTGGCACCACTGGGAGAGGTGTGCCACCCAGCTGCAGGACGAGCTCCGATGG    | 240  |
| Db | 181  | TCCTTTGGCACCACTGGGAGAGGTGTGCCACCCAGCTGCAGGACGAGCTCCGATGG    | 240  |
| Qy | 241  | CGGAGCCCTGACAGAGAGGAGTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT  | 300  |
| Db | 241  | CGGAGCCCTGACAGAGAGGAGTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT  | 300  |
| Qy | 301  | GCTGGTCCAGCCCTCGGCTGACATCGGAGGCTGGAGTGCAGTGCAGCTGGGCC       | 360  |
| Db | 301  | GCTGGTCCAGCCCTCGGCTGACATCGGAGGCTGGAGTGCAGTGCAGCTGGGCC       | 360  |
| Qy | 361  | AACTGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCAGCTGCATCCGCC      | 420  |
| Db | 361  | AACTGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCAGCTGCATCCGCC      | 420  |
| Qy | 421  | TGTGGCGCACCTGCAAGTGGCTGGAACATGCAGCTGCTGCCCGGGCTTGGCGTCT     | 480  |
| Db | 421  | TGTGGCGCACCTGCAAGTGGCTGGAACATGCAGCTGCTGCCCGGGCTTGGCGTCT     | 480  |
| Qy | 481  | TTCTTGAAGTGGTCAAGTGGCTGGAACATGCAGCTGCTGCCCGGGCTTGGCGTCT     | 540  |
| Db | 481  | TTCTTGAAGTGGTCAAGTGGCTGGAACATGCAGCTGCTGCCCGGGCTTGGCGTCT     | 540  |
| Qy | 541  | AGTGTGCTCCAGCCAGCCAGCTGCACCCACTACAGCAGCTCGTGTGGCCACTCAAGC   | 600  |
| Db | 541  | AGTGTGCTCCAGCCAGCCAGCTGCACCCACTACAGCAGCTCGTGTGGCCACTCAAGC   | 600  |
| Qy | 601  | AGTGTGCTGTTGGCGGCACTGTGCTTGCAGGCGCAGACGATAGAAGCTTGTCT       | 660  |
| Db | 601  | AGTGTGCTGTTGGCGGCACTGTGCTTGCAGGCGCAGACGATAGAAGCTTGTCT       | 660  |
| Qy | 661  | GTGCTACTCCCCGGAGGCACTGGGAGGTCAACGGGAAGACATATCCCTTATAAG      | 720  |
| Db | 661  | GTGCTACTCCCCGGAGGCACTGGGAGGTCAACGGGAAGACATATCCCTTATAAG      | 720  |
| Qy | 721  | AGGTGCTGTGTGCTCTGCTCCAGCAGTGTCTCAGGCTGCTTCAAGGCTGGGACC      | 780  |
| Db | 721  | AGGTGCTGTGTGCTCTGCTCCAGCAGTGTCTCAGGCTGCTTCAAGGCTGGGACC      | 780  |
| Qy | 781  | ATGAGGGGGCTGTGTGAGTCCCGAGGATCCCTTGTGCGCATGAGCTGCCAGAACATG   | 840  |
| Db | 781  | ATGAGGGGGCTGTGTGAGTCCCGAGGATCCCTTGTGCGCATGAGCTGCCAGAACATG   | 840  |
| Qy | 841  | GACGTCTCAACATCAGCACCTGCCACTGCTCCCTGCTCCCTGCTACACGGGAGATCT   | 900  |
| Db | 841  | GACGTCTCAACATCAGCACCTGCCACTGCTCCCTGCTCCCTGCTACACGGGAGATCT   | 900  |
| Qy | 901  | GCCAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG   | 960  |
| Db | 901  | GCCAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG   | 960  |
| Qy | 961  | CGTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCACCAAGTGTCTTCCCTTCC      | 1020 |
| Db | 961  | CGTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCACCAAGTGTCTTCCCTTCC      | 1020 |
| Qy | 1021 | ACACCTGTGACCTGAGGATCGAGGAGTGTCTTCTGCTTCTTCTTCTTCTTCTTCTTCT  | 1080 |
| Db | 1021 | ACACCTGTGACCTGAGGATCGAGGAGTGTCTTCTGCTTCTTCTTCTTCTTCTTCTTCT  | 1080 |
| Qy | 1081 | ATTACAGAGCCAGGATGAATGTACAGAAAGCGGGGTGCTGGCCCAATCAAGAGCC     | 1140 |
| Db | 1081 | ATTACAGAGCCAGGATGAATGTACAGAAAGCGGGGTGCTGGCCCAATCAAGAGCC     | 1140 |

Query Match 100.0%; Score 1876; DB 10; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

TYPE: DNA  
ORGANISM: Homo Sapien  
US-09-944-654-49

SEQ ID NO 49

NUMBER OF SEQ ID NOS: 120

PRIOR FILING DATE: February 28, 2001

PRIOR FILING DATE: February 28, 2001

PRIOR FILING DATE: February 28, 2001

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PRIOR FILING DATE: February 28, 2001

PRIOR FILING DATE: February 28, 2001



;; PRIOR FILING DATE: March 2, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/08439  
;; PRIOR FILING DATE: March 30, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/14042  
;; PRIOR FILING DATE: May 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/20710  
;; PRIOR FILING DATE: July 28, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/32678  
;; PRIOR FILING DATE: December 1, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/06520  
;; PRIOR FILING DATE: February 28, 2001  
;; NUMBER OF SEQ ID NOS: 120  
;; SEQ ID NO 49  
;; LENGTH: 1876  
;; TYPE: DNA  
;; ORGANISM: Homo Sapien  
US-09-943-851A-49

Query Match 100.0%; Score 1876; DB 10; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCCTTTTGCACAGCCAGCCTGACTCTCTGGAGATTGTGAATAGCTCCATCCAGCCTG 60  
DB 1 CTCCTTTTGCACAGCCAGCCTGACTCTCTGGAGATTGTGAATAGCTCCATCCAGCCTG 60  
QY 61 AGAAACAGCCGGGTGTGAGCCAGGCTGTGCAGGGAGCCTGTACGGGGCCCAACAGAC 120  
DB 61 AGAAACAGCCGGGTGTGAGCCAGGCTGTGCAGGGAGCCTGTACGGGGCCCAACAGAC 120  
QY 121 CCATGCTGCATCCAGAGACCTCCCTGGCCGGGGCATCTCTGGCTGTGCTCTGGCCC 180  
DB 121 CCATGCTGCATCCAGAGACCTCCCTGGCCGGGGCATCTCTGGCTGTGCTCTGGCCC 180  
QY 181 TCCTTGGCCACCACTGGGCGAGAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGG 240  
DB 181 TCCTTGGCCACCACTGGGCGAGAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGG 240  
QY 241 CGGAGCCCTGACAGGAGAGAGTTTCTGCTCTCTCCCTGACACACCGCTCGCA 300  
DB 241 CGGAGCCCTGACAGGAGAGAGTTTCTGCTCTCTCCCTGACACACCGCTCGCA 300  
QY 301 GCTGGTCCAGCCCTCGGGTGTGACATCGGAGGCTGGAGTGTGAGTGTGAGTGTGAGT 360  
DB 301 GCTGGTCCAGCCCTCGGGTGTGACATCGGAGGCTGGAGTGTGAGTGTGAGTGTGAGT 360  
QY 361 AACTGGCTCAAGCCAGGCGAGCCCTGTGGATCCCAACCCCGAGCCTGGCATCCGGCC 420  
DB 361 AACTGGCTCAAGCCAGGCGAGCCCTGTGGATCCCAACCCCGAGCCTGGCATCCGGCC 420  
QY 421 TGTGGCCACCTGCAAGTGGCTGGAACATGCAGTGTGCTGCTGCTGCTGCTGCTGCTGCT 480  
DB 421 TGTGGCCACCTGCAAGTGGCTGGAACATGCAGTGTGCTGCTGCTGCTGCTGCTGCTGCT 480  
QY 481 TTGTTGAAGTGTGACCTATGTTTGCAGAGGGGAGCGGTACAGCCACCGCGCAGGAG 540  
DB 481 TTGTTGAAGTGTGACCTATGTTTGCAGAGGGGAGCGGTACAGCCACCGCGCAGGAG 540  
QY 541 AGTGTGCTGCAGAGCCACCTGACCCATACAGCAGCTGTGTGGGGCCACCTCAAGCC 600  
DB 541 AGTGTGCTGCAGAGCCACCTGACCCATACAGCAGCTGTGTGGGGCCACCTCAAGCC 600  
QY 601 AGCTGGGCTGTGGGGCAGCTGTGCTGTGCAGGCCAGACGAGCATAGAAGCCTTTGTCT 660  
DB 601 AGCTGGGCTGTGGGGCAGCTGTGCTGTGCAGGCCAGACGAGCATAGAAGCCTTTGTCT 660  
QY 661 GTGCCCTACTCCCGGAGGCACTGGGAGTGTCAACGGGAAGACAATCATCCCTTATAGA 720  
DB 661 GTGCCCTACTCCCGGAGGCACTGGGAGTGTCAACGGGAAGACAATCATCCCTTATAGA 720  
QY 721 AGGGTGGCTGGTGTGCTGTGCACAGCAGTGTCTCAGGCTGTCTCAAGCCCTGGGACC 780  
DB 721 AGGGTGGCTGGTGTGCTGTGCACAGCAGTGTCTCAGGCTGTCTCAAGCCCTGGGACC 780

QY 781 ATGCAGGGGGCTCTGTGAGGTCCCCAGGAATCTTCTGCGATGAGCTGCCAGAACCATG 840  
DB 781 ATGCAGGGGGCTCTGTGAGGTCCCCAGGAATCTTCTGCGATGAGCTGCCAGAACCATG 840  
QY 841 GACGTCTCAACATCAGCACCTGCGACTGTCCCTTGTGCTGCTGCTGCTGCTGCTGCTGCT 900  
DB 841 GACGTCTCAACATCAGCACCTGCGACTGTCCCTTGTGCTGCTGCTGCTGCTGCTGCTGCT 900  
QY 901 GCCAAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 960  
DB 901 GCCAAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 960  
QY 961 GCGTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCACCAAGTGTGCTTTCCTTCC 1020  
DB 961 GCGTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCACCAAGTGTGCTTTCCTTCC 1020  
QY 1021 ACACCTGTGACCTGAGGATGACGGAGACTCTCTCATGCTGTCTTCAGAGGCGAGACCT 1080  
DB 1021 ACACCTGTGACCTGAGGATGACGGAGACTCTCTCATGCTGTCTTCAGAGGCGAGACCT 1080  
QY 1081 ATTACAGAGCCAGGATGAAATGTGAGAGAAAGGGGGTGTGCTGCCACAGATCAAGAGCC 1140  
DB 1081 ATTACAGAGCCAGGATGAAATGTGAGAGAAAGGGGGTGTGCTGCCACAGATCAAGAGCC 1140  
QY 1141 AGAAAGTGCAGGACATCTCGCTTCTATCTGGGCGCTGTGGAGACCAACAGAGGTGA 1200  
DB 1141 AGAAAGTGCAGGACATCTCGCTTCTATCTGGGCGCTGTGGAGACCAACAGAGGTGA 1200  
QY 1201 CTGACATGACTTTCAGACACAGGAACTTCTGATCGGGCTCACTTACAGAGCGCCAGG 1260  
DB 1201 CTGACATGACTTTCAGACACAGGAACTTCTGATCGGGCTCACTTACAGAGCGCCAGG 1260  
QY 1261 ACTCTTCCGCTGGGCCACAGGGAGCAGGAGCTTCAACAGATTTTGGCTTTGGCGAGC 1320  
DB 1261 ACTCTTCCGCTGGGCCACAGGGAGCAGGAGCTTCAACAGATTTTGGCTTTGGCGAGC 1320  
QY 1321 CTGACAAACACAGGGCTGTGTGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1380  
DB 1321 CTGACAAACACAGGGCTGTGTGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1380  
QY 1381 TGCAGGCTTCAAGTGTGCTTCACTGAGAGCAGGAGCTTCAACAGATTTTGGCTTTGGCGAGC 1440  
DB 1381 TGCAGGCTTCAAGTGTGCTTCACTGAGAGCAGGAGCTTCAACAGATTTTGGCTTTGGCGAGC 1440  
QY 1441 TCTGCAAGTGTGCTTCAAGTGTGCTTCACTGAGAGCAGGAGCTTCAACAGATTTTGGCTTTGGCGAGC 1500  
DB 1441 TCTGCAAGTGTGCTTCAAGTGTGCTTCACTGAGAGCAGGAGCTTCAACAGATTTTGGCTTTGGCGAGC 1500  
QY 1501 CATGGCTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1560  
DB 1501 CATGGCTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1560  
QY 1561 GGAAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1620  
DB 1561 GGAAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1620  
QY 1621 AATGCGAAGTGTGGCGAGAGAGCAGGAGGAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1680  
DB 1621 AATGCGAAGTGTGGCGAGAGAGCAGGAGGAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1680  
QY 1681 AGAAGAGTGTGGGGCTTTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1740  
DB 1681 AGAAGAGTGTGGGGCTTTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1740  
QY 1741 GAAGGAGAGCAGCAGCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1800  
DB 1741 GAAGGAGAGCAGCAGCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1800  
QY 1801 TGTGGGGCAGCGAGCTTCCCTGTGGCATGAACCCACGGGGTATTAATATGAATCAG 1860  
DB 1801 TGTGGGGCAGCGAGCTTCCCTGTGGCATGAACCCACGGGGTATTAATATGAATCAG 1860

Qy 1861 CTGAAAAAAAAAAAA 1876  
| | | | | | | | | | | | | | | |  
Db 1861 CTGAAAAAAAAAAAA 1876

Search completed: December 28, 2002, 23:04:18  
Job time : 104.538 secs

GenCore version 5.1.3  
Copyright (c) 1993 - 2002 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 28, 2002, 16:45:43 ; Search time 329.93 Seconds  
(without alignments)  
12124.644 Million cell updates/sec

Title: US-09-944-896-49\_COPY\_201\_447

Perfect score: 247

Sequence: 1 gaggtgtggccaccagct.....cacctgcaagtggcgtgga 247

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 32308132

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

EST:\*

1: em\_estba:\*

2: em\_esthum:\*

3: em\_estin:\*

4: em\_estmu:\*

5: em\_estov:\*

6: em\_estpl:\*

7: em\_estro:\*

8: em\_htc:\*

9: gb\_est1:\*

10: gb\_est2:\*

11: gb\_hic:\*

12: gb\_est3:\*

13: gb\_est4:\*

14: gb\_est5:\*

15: em\_estom:\*

16: em\_estom:\*

17: gb\_gss:\*

18: em\_gss\_hum:\*

19: em\_gss\_inv:\*

20: em\_gss\_pln:\*

21: em\_gss\_vrt:\*

22: em\_gss\_fun:\*

23: em\_gss\_mam:\*

24: em\_gss\_mus:\*

25: em\_gss\_other:\*

26: em\_gss\_pro:\*

27: em\_gss\_rod:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|-------------|
| 1          | 245.4 | 99.4        | 463    | 9     | AI792411    |
| 2          | 245.4 | 99.4        | 1076   | 13    | BM547887    |
| 3          | 242.2 | 98.1        | 1034   | 14    | BM924615    |
| 4          | 232.6 | 94.2        | 710    | 13    | BI760121    |
| 5          | 230.2 | 93.2        | 709    | 13    | BI759120    |
| 6          | 230.2 | 93.2        | 928    | 13    | BI517774    |

|    |       |      |      |    |          |
|----|-------|------|------|----|----------|
| 7  | 228.6 | 92.6 | 939  | 13 | BI757380 |
| 8  | 223   | 90.3 | 500  | 13 | BI761101 |
| 9  | 219.8 | 89.0 | 852  | 13 | BI762690 |
| 10 | 216   | 87.4 | 836  | 13 | BI764403 |
| 11 | 190.4 | 77.1 | 916  | 13 | BI759333 |
| 12 | 163.6 | 66.2 | 521  | 13 | BI340175 |
| 13 | 162   | 65.6 | 392  | 10 | AW437073 |
| 14 | 135.6 | 54.9 | 321  | 13 | BI359591 |
| 15 | 124.4 | 50.4 | 523  | 10 | AW786132 |
| 16 | 118   | 47.8 | 634  | 10 | BB602462 |
| 17 | 87.2  | 35.3 | 457  | 13 | BI759735 |
| 18 | 43.2  | 17.5 | 1101 | 17 | CNS01751 |
| 19 | 42.8  | 17.3 | 515  | 10 | BE481031 |
| 20 | 42.2  | 17.1 | 529  | 12 | BF079457 |
| 21 | 42    | 17.0 | 893  | 11 | AK005860 |
| 22 | 41.2  | 16.7 | 1175 | 13 | BI912306 |
| 23 | 40.8  | 16.5 | 925  | 17 | CNS0091P |
| 24 | 40    | 16.2 | 665  | 10 | BE369422 |
| 25 | 40    | 16.2 | 925  | 17 | CNS0091P |
| 26 | 39.8  | 16.1 | 734  | 17 | BH839844 |
| 27 | 39.8  | 16.1 | 749  | 17 | BH839110 |
| 28 | 39.2  | 15.9 | 680  | 13 | BI911002 |
| 29 | 39    | 15.8 | 233  | 10 | AW382986 |
| 30 | 38.8  | 15.7 | 977  | 14 | BQ710623 |
| 31 | 38.2  | 15.5 | 738  | 12 | BF026829 |
| 32 | 37.6  | 15.2 | 323  | 14 | BM705204 |
| 33 | 37.6  | 15.2 | 364  | 10 | BE487038 |
| 34 | 37.6  | 15.2 | 407  | 12 | BG592644 |
| 35 | 37.6  | 15.2 | 428  | 10 | AW863268 |
| 36 | 37.6  | 15.2 | 448  | 12 | BE846302 |
| 37 | 37.6  | 15.2 | 451  | 12 | BF074630 |
| 38 | 37.6  | 15.2 | 454  | 10 | BE479205 |
| 39 | 37.6  | 15.2 | 454  | 10 | BE480335 |
| 40 | 37.6  | 15.2 | 498  | 12 | BG688440 |
| 41 | 37.6  | 15.2 | 515  | 10 | BE484486 |
| 42 | 37.6  | 15.2 | 518  | 10 | BE480835 |
| 43 | 37.6  | 15.2 | 528  | 10 | BE480319 |
| 44 | 37.6  | 15.2 | 532  | 10 | BE480502 |
| 45 | 37.6  | 15.2 | 557  | 9  | AL703236 |

# ALIGNMENTS

RESULT 1  
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LOCUS  
DEFINITION  
AI792411  
IMAGE:1700537 5' similar to TR:043692 043692 25 KDA TRYPSIN  
INHIBITOR. ; mRNA sequence.  
AI792411  
EST.  
AI792411.1 GI:5340127  
human.  
ORGANISM  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
1 (bases 1 to 463)  
NCI/NIDR-CCGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
National Cancer Institute / National Institute of Dental Research,  
Cancer Genome Anatomy Project (CGAP), Tumor Gene Index  
Unpublished (1997)  
Contact: Robert Strausberg, Ph.D.  
Email: [cgaps-remail.nih.gov](mailto:cgaps-remail.nih.gov)  
This clone is available royalty-free through LLNL; contact the  
IMAGE Consortium ([info@image.llnl.gov](mailto:info@image.llnl.gov)) for further information.  
This read is a RESEQUENCE of a previously sequenced human clone  
Original clone citation: see original entry for original citation  
information  
This 5' resequenced clone has no previous 5' data to verify this  
new read against  
Seq primer: -40RP from Gibco  
High quality sequence stop: 429.

BI757380 603029310  
BI761101 603043573  
BI762690 603048444  
BI764403 603046141  
BI759333 603043013  
BI340175 365365 MA  
AW437073 77836 MAR  
BI359591 384181 MA  
AW786132 118625 MA  
BB602462 BB602462  
BI759735 603045609  
AL108460 Drosophila  
BE481031 166323 BA  
BF079457 230060 MA  
AK005860 Mus muscu  
BI912306 Drosophila  
AL053013 Drosophila  
BE369422 601220824  
AL053013 Drosophila  
BH839844 LMCRI5000  
BH839110 LMCRI5000  
BI911002 603068720  
BI911002 603068720  
BI911002 603068720  
BQ710623 AGENCOURT  
BF026829 601670724  
BM705204 UI-E-CIL-  
BE487038 175565 BA  
BG592644 342421 BA  
AW863268 MR3-SN000  
BE46302 231986 BA  
BF074630 222090 MA  
BE479205 163817 BA  
BE480335 165384 BA  
BG688440 336061 BA  
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BE480835 166077 BA  
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AL703236 DKFZp686H

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/db_xref="taxon:9606"
/clone="IMAGE:1700537"
/cloned_lib="Gessler Wilms tumor"
/sex="pooled (6)"
/lab_host="DH10B"
/note="vector: pSPORT1; Site_1: SalI; Site_2: NotI; RNA
was prepared from a pool of 6 anonymous Wilms' tumor RNAs.
RNA was prepared by acid-phenol, followed by one round of
oligo dt selection. cDNA library preparation was with
the BRL/Life Tech. Superscript plasmid system. An
oligo-dt NotI primer for first strand synthesis generated
gcggccccc(t)n at the 3' end of the clones. A 5' SalI
adaptor was used with sequence 5'-gtcgaccacgctccg-3'.
Resulting cDNAs were size selected (average size 2 kb),
NotI digested, and ligated into NotI/SalI-cut pSPORT1.
Library was constructed by Dr. Manfred Gessler."
BASE COUNT      80 a 163 c 143 g 77 t
ORIGIN
Query Match      99.4%; Score 245.4; DB 9; Length 463;
Best Local Similarity 99.6%; Pred. No. 9.3e-49;
Matches 246; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCCGGAGCCCTGAACAGGAAG 60
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DB 205 GAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCCGGAGCCCTGAACAGGAAG 264
|||||
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|||||
DB 265 GAGAGTTTCTTCTCTCTCCCTGCACACCGCTGCGCAGCTGGGTCCAGCCCCCTCGG 324
|||||
QY 121 GCTGACATCGCGAGGTGAGCTGGAGTGACAGCTGGCCCACTGGCTCAAGCCAGGGCA 180
|||||
DB 325 GCTGACATCGCGAGGTGAGCTGGAGTGACAGCTGGCCCACTGGCTCAAGCCAGGGCA 384
|||||
QY 181 GCCCTCTGTGGAATCCCAACCCGAGCTGGCATCCGCTGGCGCCACCCCTCAAGTG 240
|||||
DB 385 GCCCTCTGTGGAATCCCAACCCGAGCTGGCATCCGCTGGCGCCACCCCTCAAGTG 444
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QY 241 GGCTGGA 247
DB 445 GGCTGGA 451

RESULT 2
BM547887
LOCUS
DEFINITION
AGENCY 6531767 NIH_MGC_124 Homo sapiens cDNA clone IMAGE:5732633
5', mRNA sequence.
ACCESSION
BM547887
VERSION
BM547887.1 GI:18782034
KEYWORDS
EST.
SOURCE
human.
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 1076)
NIH-MGC http://mgi.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgabbs-r@mail.nih.gov
Tissue Procurement: Invitrogen
cDNA Library Preparation: Life Technologies, Inc.
DNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone Distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAMI2735 row: a column: 18

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/db_xref="taxon:9606"
/clone="IMAGE:5732633"
/cloned_lib="NIH_MGC_124"
/tissue_type="hippocampus"
/lab_host="DH10B"
/note="organ: brain; Vector: pCMV-SPORT6; Site_1: EcoRV
(destroyed); Site_2: NotI; RNA source male hippocampus,
age 27. Library is oligo-dt primed and directionally
cloned (EcoRV site is destroyed upon cloning). Average
insert size 1.4 kb, insert size range 0.9-4 kb. Library is
normalized and enriched for full-length clones and was
constructed by C. Gruber (Invitrogen). Research Genetics
tracking code 012."
BASE COUNT      192 a 358 c 338 g 182 t 6 others
ORIGIN
Query Match      99.4%; Score 245.4; DB 13; Length 1076;
Best Local Similarity 99.6%; Pred. No. 1e-48;
Matches 246; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCCGGAGCCCTGAACAGGAAG 60
|||||
DB 334 GAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCCGGAGCCCTGAACAGGAAG 393
|||||
QY 61 GAGAGTTTCTTCTCTCTCCCTGCACAAACCGCTGCGCAGCTGGGTCCAGCCCCCTCGG 120
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DB 394 GAGAGTTTCTTCTCTCTCCCTGCACAAACCGCTGCGCAGCTGGGTCCAGCCCCCTCGG 453
|||||
QY 121 GCTGACATCGCGAGGTGAGCTGGAGTGACAGCTGGCCCACTGGCTCAAGCCAGGGCA 180
|||||
DB 454 GCTGACATCGCGAGGTGAGCTGGAGTGACAGCTGGCCCACTGGCTCAAGCCAGGGCA 513
|||||
QY 181 GCCCTCTGTGGAATCCCAACCCGAGCTGGCATCCGCTGGCGCCACCCCTGCAAGTG 240
|||||
DB 514 GCCCTCTGTGGAATCCCAACCCGAGCTGGCATCCGCTGGCGCCACCCCTGCAAGTG 573
|||||
QY 241 GGCTGGA 247
DB 574 GGCTGGA 580

RESULT 3
BM924615
LOCUS
DEFINITION
AGENCY 6767842 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:5761001
5', mRNA sequence.
ACCESSION
BM924615
VERSION
BM924615.1 GI:19374994
KEYWORDS
EST.
SOURCE
human.
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 1034)
NIH-MGC http://mgi.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgabbs-r@mail.nih.gov
Tissue Procurement: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone Distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAMI2808 row: o column: 18
High quality sequence stop: 685.

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FEATURES  
source

Location/Qualifiers  
1. .1034  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:5761001"  
/clone\_lib="NIH\_MGC\_116"  
/lab\_host="DH10B"  
/note="Organ: pooled colon, kidney, stomach; Vector:  
pCMV-SPORT6; Site.1: NotI; Site.2: EcoRV (destroyed); RNA  
source anonymous pool of 3 colons, age 26 yo male, 49 yo  
female, 71 yo male colon; 46 yo male kidney, and pool of 2  
stomachs, 62 yo male and 70 yo female. Library is  
oligo-dr primed and directionally cloned (EcoRV site is  
destroyed upon cloning). Average insert size 1.4 kb,  
insert size range 1-3 kb. Library is normalized and  
enriched for full-length clones and was constructed by C.  
Gruber (Invitrogen). Research Genetics tracking code  
023. Note: this is a NIH\_MGC Library."

BASE COUNT 186 a 336 c 321 g 189 t 2 others  
ORIGIN

Query Match 98.1%; Score 242.2; DB 14; Length 1034;  
Best Local Similarity 98.8%; Pred. No. 5,8e-48;  
Matches 244; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GAGGTGTGCCACCCAGCTCGAGGAGGCTCCGATGGCCGGAGCCCTGAACAGGAAG 60  
|||||  
Db 198 GAGGTGTGCCACCCAGCTCGAGGAGGCTCCGATGGCCGGAGCCCTGAACAGGAAG 257  
|||||  
QY 61 GAGAGTTTCTTGTCTCTCCCTGTCACACACCCCTGCGCAGCTGGTCCAGCCCTCGG 120  
|||||  
Db 258 GAGAGTTTCTTGTCTCTCCCTGTCACACACCCCTGCGCAGCTGGTCCAGCCCTCGG 317  
|||||  
QY 121 GCTGACATCGGAGGCTGGAGTGGAGTGACAGCCCTGGCCCACTGGCTCAAGCCAGGGCA 180  
|||||  
Db 318 GCTGACATCGGAGGCTGGAGTGGAGTGACAGCCCTGGCCCACTGGCTCAAGCCAGGGCA 377  
|||||  
QY 181 GCCCTCTGTGGAATCCCAACCCCGAGCTGGCATCCGCGCTGTGGCGCACCCCTGCAAGATG 240  
|||||  
Db 378 GCCCTCTGTGGAATCCCAACCCCGAGCTGGCATCCGCGCTGTGGCGCACCCCTGCAAGATG 437  
|||||  
QY 241 GGCTGGA 247  
|||||  
Db 438 GGCTGGA 444

RESULT 4  
BI760121  
LOCUS  
DEFINITION  
603044615F1 NIH\_MGC\_116 Homo sapiens cDNA clone IMAGE:5184962 5',  
mRNA sequence.  
ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
EST.  
human.  
ORGANISM  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 710)  
NIH-MGC http://mgc.nci.nih.gov/  
National Institutes of Health, Mammalian Gene Collection (MGC)  
Unpublished (1999)  
Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-r@mail.nih.gov  
Tissue procurement: Life Technologies, Inc.  
cDNA Library Preparation: Life Technologies, Inc.  
DNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: Incyte Genomics, Inc.  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
http://image.llnl.gov  
Plate: LLAM1461 row: n column: 03  
High quality sequence stop: 704.

FEATURES  
source

Location/Qualifiers  
1. .710  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:5184962"  
/clone\_lib="NIH\_MGC\_116"  
/lab\_host="DH10B"  
/note="Organ: pooled colon, kidney, stomach; Vector:  
pCMV-SPORT6; Site.1: NotI; Site.2: EcoRV (destroyed); RNA  
source anonymous pool of 3 colons, age 26 yo male, 49 yo  
female, 71 yo male colon; 46 yo male kidney, and pool of 2  
stomachs, 62 yo male and 70 yo female. Library is  
oligo-dr primed and directionally cloned (EcoRV site is  
destroyed upon cloning). Average insert size 1.4 kb,  
insert size range 1-3 kb. Library is normalized and  
enriched for full-length clones and was constructed by C.  
Gruber (Invitrogen). Research Genetics tracking code  
023. Note: this is a NIH\_MGC Library."

BASE COUNT 131 a 228 c 226 g 125 t  
ORIGIN

Query Match 94.2%; Score 232.6; DB 13; Length 710;  
Best Local Similarity 98.3%; Pred. No. 1.1e-45;  
Matches 235; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 9 GCCACCCAGCTCGAGGAGGCTCCGATGGCCGGAGCCCTGAACAGGAAGAGATT 68  
|||||  
Db 6 GCCACCCAGCTCGAGGAGGCTCCGATGGCCGGAGCCCTGAACAGGAAGAGATT 65  
|||||  
QY 69 CTTGCTCTCTCCCTGTCACACACCCCTGCGCAGCTGGTCCAGCCCTGCGGCTGACAT 128  
|||||  
Db 66 CTTGCTCTCTCCCTGTCACACACCCCTGCGCAGCTGGTCCAGCCCTGCGGCTGACAT 125  
|||||  
QY 129 GCGGAGCTGGAGTGGAGTGACAGCCCTGGCCCACTGGCTCAAGCCAGGAGCCCTCG 188  
|||||  
Db 126 GCGGAGCTGGAGTGGAGTGACAGCCCTGGCCCACTGGCTCAAGCCAGGAGCCCTCG 185  
|||||  
QY 189 TGAATATCCCAACCCCGAGCTGGCATCCGCGCTGTGGCGCACCCCTGCAAGTGGGTGGA 247  
|||||  
Db 186 TGAATATCCCAACCCCGAGCTGGCATCCGCGCTGTGGCGCACCCCTGCAAGTGGGTGGA 244  
|||||

RESULT 5  
BI759120  
LOCUS  
DEFINITION  
603042530F1 NIH\_MGC\_116 Homo sapiens cDNA clone IMAGE:5182999 5',  
mRNA sequence.  
ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
EST.  
human.  
ORGANISM  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 709)  
NIH-MGC http://mgc.nci.nih.gov/  
National Institutes of Health, Mammalian Gene Collection (MGC)  
Unpublished (1999)  
Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-r@mail.nih.gov  
Tissue procurement: Life Technologies, Inc.  
cDNA Library Preparation: Life Technologies, Inc.  
DNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: Incyte Genomics, Inc.  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
http://image.llnl.gov  
Plate: LLAM1456 row: 1 column: 08  
High quality sequence stop: 709.

FEATURES  
source  
1. .709  
Location/Qualifiers  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"

/clone="IMAGE:5182999"  
/clone\_lib="NIH\_MGC\_116"  
/lab\_host="DH10B"  
/note="Organ: pooled colon, kidney, stomach; Vector: PCMV-SPORT6; Site:1: NotI; Site:2: EcoRV (destroyed); RNA source anonymous pool of 3 colons, age 26 yo male, 49 yo female, 71 yo male colon; 46 yo male kidney, and pool of 2 stomachs, 62 yo male and 70 yo female. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.4 kb, insert size range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 023. Note: this is a NIH\_MGC Library."  
BASE COUNT 124 a 240 c 220 g 125 t  
ORIGIN

Query Match 93.2%; Score 230.2; DB 13; Length 709;  
Best Local Similarity 98.4%; Pred. No. 4.1e-45;  
Matches 243; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

QY 1 GAGGTGTGGCCACCCAGCTGCAGGAGGCTCCGATGGCGGAGCCCTGAACAGGAAG 60  
Db 248 GAGGTGTGGCCACCCAGCTGCAGGAGGCTCCGATGGCGGAGCCCTGAACAGGAAG 307  
QY 61 GAGAGTTTCTTGTCTCTCCCTGCACACCCCTGCGAGCTGGTCCAGCCCTCGG 120  
Db 308 GAGAGTTTCTTGTCTCTCCCTGCACACCCCTGCGAGCTGGTCCAGCCCTCGG 367  
QY 121 GCTGACATGCGGAGGCTGGAGTGCAGAGCTGGCCCACTGGCTCAAGCCAGGGA 180  
Db 368 GCTGACATGCGGAGGCTGGAGTGCAGAGCTGGCCCACTGGCTCAAGCCAGGGA 426  
QY 181 GCCCTCTGTGGAATCCACACCCAGCTGGCATCGGCTGCGGAGCCCTGCAAGTG 240  
Db 427 GCCCTCTGTGGAATCCACACCCAGCTGGCATCGGCTGCGGAGCCCTGCAAGTG 486  
QY 241 GGCTGGA 247  
Db 487 GGCTGGA 493

RESULT 6  
BI517774  
LOCUS 603042018F1 NIH\_MGC\_116 Homo sapiens cDNA clone IMAGE:5182997 5',  
DEFINITION mRNA sequence.  
ACCESSION BI517774  
VERSION BI517774.1 GI:15342566  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 928)  
NIH-MGC <http://mgc.nci.nih.gov/>.  
National Institutes of Health, Mammalian Gene Collection (MGC)  
Unpublished (1999)  
Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-r@mail.nih.gov  
Tissue Procurement: Life Technologies, Inc.  
cDNA Library Preparation: Life Technologies, Inc.  
DNA Sequencing by: Incyte Genomics, Inc.  
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:  
<http://image.llnl.gov>  
Plate: LLAM1455 row: c column: 06  
High quality sequence stop: 860.  
Location/Qualifiers  
1. .928  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"

FEATURES  
source

/clone="IMAGE:5182397"  
/clone\_lib="NIH\_MGC\_116"  
/lab\_host="DH10B"  
/note="Organ: pooled colon, kidney, stomach; Vector: PCMV-SPORT6; Site:1: NotI; Site:2: EcoRV (destroyed); RNA source anonymous pool of 3 colons, age 26 yo male, 49 yo female, 71 yo male colon; 46 yo male kidney, and pool of 2 stomachs, 62 yo male and 70 yo female. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.4 kb, insert size range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 023. Note: this is a NIH\_MGC Library."  
BASE COUNT 169 a 293 c 307 g 159 t  
ORIGIN

Query Match 93.2%; Score 230.2; DB 13; Length 928;  
Best Local Similarity 98.4%; Pred. No. 4.2e-45;  
Matches 243; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

QY 1 GAGGTGTGGCCACCCAGCTGCAGGAGGCTCCGATGGCGGAGCCCTGAACAGGAAG 60  
Db 248 GAGGTGTGGCCACCCAGCTGCAGGAGGCTCCGATGGCGGAGCCCTGAACAGGAAG 307  
QY 61 GAGAGTTTCTTGTCTCTCCCTGCACACCCCTGCGAGCTGGTCCAGCCCTCGG 120  
Db 308 GAGAGTTTCTTGTCTCTCCCTGCACACCCCTGCGAGCTGGTCCAGCCCTCGG 367  
QY 121 GCTGACATGCGGAGGCTGGAGTGCAGAGCTGGCCCACTGGCTCAAGCCAGGGA 180  
Db 368 GCTGACATGCGGAGGCTGGAGTGCAGAGCTGGCCCACTGGCTCAAGCCAGGGA 426  
QY 181 GCCCTCTGTGGAATCCACACCCAGCTGGCATCGGCTGCGGAGCCCTGCAAGTG 240  
Db 427 GCCCTCTGTGGAATCCACACCCAGCTGGCATCGGCTGCGGAGCCCTGCAAGTG 486  
QY 241 GGCTGGA 247  
Db 487 GGCTGGA 493

RESULT 7  
BI757380  
LOCUS 603029310F1 NIH\_MGC\_114 Homo sapiens cDNA clone IMAGE:5199674 5',  
DEFINITION mRNA sequence.  
ACCESSION BI757380  
VERSION BI757380.1 GI:15748958  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 939)  
NIH-MGC <http://mgc.nci.nih.gov/>.  
National Institutes of Health, Mammalian Gene Collection (MGC)  
Unpublished (1999)  
Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-r@mail.nih.gov  
Tissue Procurement: Life Technologies, Inc.  
cDNA Library Preparation: Life Technologies, Inc.  
DNA Sequencing by: Incyte Genomics, Inc.  
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:  
<http://image.llnl.gov>  
Plate: LLAM1500 row: c column: 03  
High quality sequence stop: 778.  
Location/Qualifiers  
1. .939  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"

FEATURES  
source





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/lab_host="DH10B"
/Note="Organ: pooled colon, kidney, stomach; Vector:
PCMV-SPORT6; Site.1: NotI; Site.2: EcoRV (destroyed); RNA
source anonymous pool of 3 colons, age 26 yo male, 49 yo
female, 71 yo male colon; 46 yo male kidney, and pool of 2
stomachs, 62 yo male and 70 yo female. Library is
oligo-dT primed and directionally cloned (EcoRV site is
destroyed upon cloning). Average insert size 1.4 kb,
insert size range 1-3 kb. Library is normalized and
enriched for full-length clones and was constructed by C.
Gruber (Invitrogen). Research Genetics tracking code
023. Note: this is a NIH_MGC Library."
BASE COUNT      146 a      283 c      269 g      154 t
ORIGIN

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Query Match      89.0%; Score 219.8; DB 13; Length 852;
Best Local Similarity 98.4%; Pred. No. 1.3e-42;
Matches 243; Conservative 0; Mismatches 2; Indels 2; Gaps 2;

QY 1 GAGGTGTGGCCACCCAGCTGACAGAGAGGCTCCGATGGCCGGAGCCCTGACACGAAG 60
Db 336 GAGGTGTGGCCACCCAGCTGACAGAGAGGCTCCGATGGCCGGAGCCCTGACACGAAG 395
QY 61 GAGAGTTCTGTCTCTCCCTGACACACCGCCCTGCGAGCTGGTCCAGCCCCCTGGG 120
Db 396 GAGAGTTCTGTCTCTCCCTGACACACCGCCCTGCGAGCTGGTCCAGCCCCCTGGG 455
QY 121 GCTGACATGCGGAGGCTGGAGTGGAGTGGAGTGGAGTGGAGTGGAGTGGAGTGGAG 180
Db 456 GCTGACAGGGGAGGCTGGAGTGGAGTGGAGTGGAGTGGAGTGGAGTGGAGTGGAG 513
QY 181 GCCCTGTGTGAATCCCAACCCAGCCCTGGCATCGGCTGCGGCTGCGGCTGCGGCTG 240
Db 514 GCCCTGTGTGAATCCCAACCCAGCCCTGGCATCGGCTGCGGCTGCGGCTGCGGCTG 573
QY 241 GGCTTGA 247
Db 574 GGCTTGA 580

```

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RESULT 10
BI764403
LOCUS      BI764403.1 836 bp mRNA linear EST 25-SEP-2001
DEFINITION 603046141F1 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:5186219 5',
mRNA sequence.
ACCESSION BI764403.1 GI:15755981
VERSION BI764403.1
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 836)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLNL1465 row: b column: 12
High quality sequence stop: 761.
Location/Qualifiers
1. .836
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5186219"
/clone_lib="NIH_MGC_116"

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FEATURES
source

```

```

/lab_host="DH10B"
/Note="Organ: pooled colon, kidney, stomach; Vector:
PCMV-SPORT6; Site.1: NotI; Site.2: EcoRV (destroyed); RNA
source anonymous pool of 3 colons, age 26 yo male, 49 yo
female, 71 yo male colon; 46 yo male kidney, and pool of 2
stomachs, 62 yo male and 70 yo female. Library is
oligo-dT primed and directionally cloned (EcoRV site is
destroyed upon cloning). Average insert size 1.4 kb,
insert size range 1-3 kb. Library is normalized and
enriched for full-length clones and was constructed by C.
Gruber (Invitrogen). Research Genetics tracking code
023. Note: this is a NIH_MGC Library."
BASE COUNT      157 a      255 c      271 g      153 t
ORIGIN

```

```

Query Match      87.4%; Score 216; DB 13; Length 836;
Best Local Similarity 97.8%; Pred. No. 1e-41;
Matches 219; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 24 GGAGCAGGCTCCGATGGCCGGAGCCCTGAACAGAGAGGAGTTCTTGTCTCTCCCT 83
Db 1 GGAGCAGGCTCCGATGGCCGGAGCCCTGAACAGAGAGGAGTTCTTGTCTCTCCCT 60
QY 84 GCACAAACCGCTGCGCAGCTGGTCCAGCCCTGCGGCTGACATGCGGAGCTGGACTG 143
Db 61 GCACAAACCGCTGCGCAGCTGGTCCAGCCCTGCGGCTGACATGCGGAGCTGGACTG 120
QY 144 GAGTGACAGCTGGCCCAACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCC 203
Db 121 GAGTGACAGCTGGCCCAACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCC 180
QY 204 GAGCCTGGCATCGGCTGTGGCGCACCCCTGCAAGTGGGCTGGA 247
Db 181 GAGCCTGGCATCGGCTGTGGCGCACCCCTGCAAGTGGGCTGGA 224

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RESULT 11
BI759353
LOCUS      BI759353.1 916 bp mRNA linear EST 25-SEP-2001
DEFINITION 603043013F1 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:518330 5',
mRNA sequence.
ACCESSION BI759353.1 GI:15750931
VERSION BI759353.1
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 916)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLNL1457 row: j column: 03
High quality sequence stop: 723.
Location/Qualifiers
1. .916
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:518330"
/clone_lib="NIH_MGC_116"
/lab_host="DH10B"
/Note="Organ: pooled colon, kidney, stomach; Vector:
PCMV-SPORT6; Site.1: NotI; Site.2: EcoRV (destroyed); RNA
source anonymous pool of 3 colons, age 26 yo male, 49 yo

```

```

FEATURES
source

```

female, 71 yo male colon; 46 yo male kidney, and pool of 2 stomachs, 62 yo male and 70 yo female. Library is oligo-dr primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.4 kb, insert size range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 023. Note: this is a NIH\_MGC Library."

BASE COUNT 153 a 306 c 278 g 178 t 1 others  
ORIGIN

Query Match 77.18; Score 190.4; DB 13; Length 916;  
Best Local Similarity 97.68; Pred. No. 1.3e-35;  
Matches 246; Conservative 0; Mismatches 1; Indels 5; Gaps 5;

QY 1 GAGGTGTGGGCACAC-CCAGCTGCA-GGAGCAGGCTCCGATGCCGGAGCCCTGAACAGGA 58  
|||||  
Db 223 GAGGTGTGGGCACACACAGCTGATGAGCAGGCTCCGATGCCGGAGCCCTGAACAGGA 282  
|||||  
QY 59 AGGAGAGTTTCTGCTCTCTCTCTGTCACAAACCGGCTG-CGCAGCTGGGTCCAGCCCTCT 117  
|||||  
Db 283 AGGAGAGTTTCTGCTCTCTCTCTCTGTCACAAACCGGCTGTCGAGCTGGGTCCAGCCCTCT 342  
|||||  
QY 118 GCGG-CTGACATCGGAGGCTGGACTGGAGTGACA-GCCTGGCCCAACTGGCTCAAGCCA 175  
|||||  
Db 343 GCGGCTGACATCGGAGGCTGGACTGGAGTGACATGCTGCGCCCAACTGGCTCAAGCCA 402  
|||||  
QY 176 GGGCAGCCCTCTGTGGGAATCCCAACCCGAGCCTGGCATCGGCTGTGGGCGCACCCCTGC 235  
|||||  
Db 403 GGGCAGCCCTCTGTGGGAATCCCAACCCGAGCCTGGCATCGGCTGTGGGCGCACCCCTGC 462  
|||||  
QY 236 AAGTGGGCTGGA 247  
|||||  
Db 463 AAGTGGGCTGGA 474

RESULT 12  
BI340175 521 bp mRNA linear EST 30-JUL-2001  
LOCUS 365365 MARC 2P1G Sus scrofa cDNA 5', mRNA sequence.  
ACCESSION BI340175  
VERSION BI340175.1 GI:15033458  
KEYWORDS EST.  
SOURCE pig.  
ORGANISM Sus scrofa

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.  
AUTHORS 1 (bases 1 to 521)  
Fahrenkrug,S.C., Freking,B.A., Rohrer,G.A., Smith,T.P.L., Casas,E.,  
Stone,R.T., Heaton,M.P., Grosse,W.M., Bennett,G.A., Laegreid,W.W.  
and Keelle,J.W.

TITLE Design and use of two pooled tissue normalized cDNA libraries for  
EST discovery in swine  
JOURNAL Unpublished (2000)  
COMMENT Contact: Smith TPL

USDA, ARS, US Meat Animal Research Center  
PO Box 166, Clay Center, NE 68933-0166, USA  
Tel: 402 762 4366  
Fax: 402 762 4390  
Email: smith@email.marc.usda.gov  
Single pass sequencing. Bases called and alt\_trimmed with phred  
v0.980904.e. Vector identified by cross\_match with the -minscore 18  
and -minmatch 12 options.  
PCR Primers  
FORWARD: AGGAAACAGCTATGACCAT  
BACKWARD: GTTTCCAGTCACGACG  
Plate: 104 row: P column: 4  
Seq primer: ATTAGGTGACACTATAG.  
Location/Qualifiers  
1. .521  
/organism="Sus scrofa"  
/db\_xref="taxon:9823"  
/clone\_lib="MARC 2P1G"

FEATURES  
source  
1. .521  
/organism="Sus scrofa"  
/db\_xref="taxon:9823"  
/clone\_lib="MARC 2P1G"

/tissue\_type="pooled"  
/lab\_host="DH10B"

/note="Vector: pCMV SPORT6; Site\_1: NotI; Site\_2: SalI;  
Library made from pooled tissue from testis, ovary,  
endometrium, hypothalamus, pituitary, and placenta."  
BASE COUNT 92 a 188 c 160 g 81 t  
ORIGIN

Query Match 66.2%; Score 163.6; DB 13; Length 521;  
Best Local Similarity 81.2%; Pred. No. 3.1e-29;  
Matches 203; Conservative 0; Mismatches 44; Indels 3; Gaps 1;

QY 1 GAGGTGTGGGCACACCCAGCTGCAGG---AGCAGGCTCCGATGCCGGAGCCCTGAACAGG 57  
|||||  
Db 138 GAAGTGACGACCACTTCAGCTCCAGGAGAGCAGGTTCCAAATGCCGGAGCCCTGAGCAGG 197  
|||||  
QY 58 AAGGAGAGTTTCTTGTCTCTCTCTCCCTGCACAAACCGCTGCGCAGCTGGGTCCAGCCCTCT 117  
|||||  
Db 198 AAGGAGAGTTTCTTGTCTCTCTCTCTCCCTGCACAAACCGCTGCGCAGCGGGTCCACCCCT 257  
|||||  
QY 118 GCGGCTGACATCGGAGGCTGGACTGGAGTGACAGCCTGGCCCAACTGGCTCAACAGGCTCAGACCAGG 177  
|||||  
Db 258 GCAGCCCAACATGACAGAAATGGACTGGAGCGAGAGGCTGGCTCAACAGGCTCAGACCAGG 317  
|||||  
QY 178 GCAGCCCTCTGTGGGAATCCCAACCCGAGCCTGGCATCGGCTGTGGGCGCACCCCTGCAA 237  
|||||  
Db 318 GCGGCCCTTTGTGGCGCCCGCAGCCCCCAAGCCTGGCTTCCATCTCTCCGGGCGCGACCCCAA 377  
|||||  
QY 238 GTGGGCTGGA 247  
|||||  
Db 378 GTGGGCTGGA 387

RESULT 13  
AW437073 392 bp mRNA linear EST 09-JUL-2000  
LOCUS 77836 MARC 2P1G Sus scrofa cDNA 5', mRNA sequence.  
ACCESSION AW437073  
VERSION AW437073.1 GI:6972379  
KEYWORDS EST.  
SOURCE pig.  
ORGANISM Sus scrofa

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.  
AUTHORS 1 (bases 1 to 392)  
Fahrenkrug,S.C., Freking,B.A., Rohrer,G.A., Smith,T.P.L., Casas,E.,  
Stone,R.T., Heaton,M.P., Grosse,W.M., Bennett,G.A., Laegreid,W.W.  
and Keelle,J.W.

TITLE Design and use of two pooled tissue normalized cDNA libraries for  
EST discovery in swine  
JOURNAL Unpublished (2000)  
COMMENT Contact: Smith TPL

USDA, ARS, US Meat Animal Research Center  
PO Box 166, Clay Center, NE 68933-0166, USA  
Tel: 402 762 4366  
Fax: 402 762 4390  
Email: smith@email.marc.usda.gov  
Single pass sequencing. Bases called and trimmed with phred  
v0.980904.e. Vector identified by cross\_match with the -minscore 20  
and -minmatch 12 options.  
PCR Primers  
FORWARD: AGGAAACAGCTATGACCAT  
BACKWARD: GTTTCCAGTCACGACG  
Plate: 37 row: H column: 9  
Seq primer: ATTAGGTGACACTATAG.  
Location/Qualifiers  
1. .392  
/organism="Sus scrofa"  
/db\_xref="taxon:9823"  
/clone\_lib="MARC 2P1G"  
/tissue\_type="pooled"  
/lab\_host="DH10B"  
/note="Vector: pCMV SPORT6; Site\_1: NotI; Site\_2: SalI;

FEATURES  
source  
1. .392  
/organism="Sus scrofa"  
/db\_xref="taxon:9823"  
/clone\_lib="MARC 2P1G"  
/tissue\_type="pooled"  
/lab\_host="DH10B"

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Library made from pooled tissue from testis, ovary,
endometrium, hypothalamus, pituitary, and placenta."
BASE COUNT      69 a 136 c 124 g 63 t
ORIGIN

Query Match      65.6%; Score 162; DB 10; Length 392;
Best Local Similarity 81.0%; Pred. No. 7.1e-29;
Matches 188; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

Qy 16 CAGCTGCAGGAGCAGCTCCGATGGCCGAGCCCTGAACAGGAGAGTTCCTTCCTC 75
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 153 CTGCAGGAGAACAGGCTTCCATGCTGGAGCCCTGAGCAGGAGAGAGCTTCCTGC 212
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 76 CTCTCCCTGCACAAACCGCTGCGCAGCTGGTCCAGCCCTGCGGTGATCAGCGAGG 135
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 213 CTCTGCTGCACACCGCTGCGCAGCGGTCCACCCCTGCAGCCACATSCAGAGA 272
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 136 CTGGACTGGAGTGACAGCTGGCCCAACTGGCTCAGCCAGGCGCCCTCTGTGGAA 195
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 273 ATGGACTGGAGTGAGAGGTGGCTCAACAGCTCAGACAGGCGCGCCCTTTGTGG 332
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 196 CCAACCCGAGCTGCATCCGCGCTGTGCGCACCCCTGCAAGTGGGCTGA 247
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 333 CCAGCCCAAGCTGCTTCCATCTCCGGGTGCACCCCAAGTGGGCTGA 384
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 14
LOCUS      B1359591      321 bp mRNA linear EST 01-AUG-2001
DEFINITION 384181 MARCH 2PIG Sus scrofa cDNA 5', mRNA sequence.
ACCESSION  B1359591
VERSION    B1359591.1 GI:15055619
KEYWORDS   EST.
SOURCE     pig.
ORGANISM   Sus scrofa
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
REFERENCE  1 (bases 1 to 321)
AUTHORS   Fahrénkrug,S.C., Freking,B.A., Rohrer,G.A., Smith,T.P.L., Casas,E.,
            Stone,R.T., Heaton,M.P., Grosse,W.M., Bennett,G.A., Laegreid,W.W.
            and Keele,J.W.
TITLE     Design and use of two pooled tissue normalized cDNA libraries for
            EST discovery in swine
JOURNAL   Unpublished (2000)
COMMENT   Contact: Smith TPL
            USDA, ARS, US Meat Animal Research Center
            PO Box 166, Clay Center, NE 68933-0166, USA
            Tel: 402 762 4366
            Fax: 402 762 4390
            Email: smith@email.marc.usda.gov
            Single pass sequencing. Bases called and alt_trimmed with phred
            v0.980904.e. Vector identified by cross_match with the -minscore 18
            and -minmatch 12 options.
PCR Primers
FORWARD: AGGAACAGCTATGACCAT
BACKWARD: GTTTCCTCAGTCACGAGC
Plate: 132 row: G column: 2
Seq primer: ATTTAGTGACACTATAG.
FEATURES   Location/Qualifiers
            source
            1..321
            /organism="Sus scrofa"
            /db_xref="taxon:9823"
            /clone_lib="MARCH 2PIG"
            /tissue_type="pooled"
            /lab_host="DH10B"
            /note="Vector: pCMV SPORT6; Site_1: NotI; Site_2: SalI;
            Library made from pooled tissue from testis, ovary,
            endometrium, hypothalamus, pituitary, and placenta."
BASE COUNT      59 a 113 c 96 g 53 t
ORIGIN

Query Match      54.9%; Score 135.6; DB 13; Length 321;
Best Local Similarity 82.6%; Pred. No. 1.4e-22;

```

```

Matches 180; Conservative 0; Mismatches 34; Indels 4; Gaps 2;

Qy 1 GAGGTGTGGCCACCCAGCTGCAGG---AGCAGGCTCCGATGGCGGAGCCCTGAACAGG 57
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 104 GAGTGCAGCCACTTACGCTGCAGGAGAGCAGGTTCCAATGCCGAGCCCTGAGCAGG 163
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 58 AAGGAGAGTTTCTTGTCTCTCCCTGCACAAACCGCTGCGCAGCTGGTTCAGGCCCT 117
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 164 AAGGAGAGCTTCTTGTCTCTCTCGCTGCACAAACCGCTGCGCAGCGGTCCACCCCT 223
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 118 GCGGCTGCATGC-GGAGGCTGGACTGGAGTGACAGCTGGCCCAACTGGCTCAAGCCAG 176
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 224 GCAGCCAACATGATAGAATGGAGTGGAGTGAGAGGTGGCTCAACAGGCTCAAACTAG 283
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 177 GCAGGCGCTCTGTGGAAATCCCAACCCGAGCGCTGGCAT 214
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 284 GCGGCGCTTGTGGCCCGCCAGCCCAAGCTGGCTT 321
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 15
LOCUS      AW786132      523 bp mRNA linear EST 09-JUL-2000
DEFINITION 118625 MARCH 1PIG Sus scrofa cDNA 5', mRNA sequence.
ACCESSION  AW786132
VERSION    AW786132.1 GI:7842908
KEYWORDS   EST.
SOURCE     pig.
ORGANISM   Sus scrofa
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
REFERENCE  1 (bases 1 to 523)
AUTHORS   Fahrénkrug,S.C., Freking,B.A., Rohrer,G.A., Smith,T.P.L., Casas,E.,
            Stone,R.T., Heaton,M.P., Grosse,W.M., Bennett,G.A., Laegreid,W.W.
            and Keele,J.W.
TITLE     Design and use of two pooled tissue normalized cDNA libraries for
            EST discovery in swine
JOURNAL   Unpublished (2000)
COMMENT   Contact: Smith TPL
            USDA, ARS, US Meat Animal Research Center
            PO Box 166, Clay Center, NE 68933-0166, USA
            Tel: 402 762 4366
            Fax: 402 762 4390
            Email: smith@email.marc.usda.gov
            Single pass sequencing. Bases called and alt_trimmed with phred
            v0.980904.e. Vector identified by cross_match with the -minscore 18
            and -minmatch 12 options.
PCR Primers
FORWARD: AGGAACAGCTATGACCAT
BACKWARD: GTTTCCTCAGTCACGAGC
Plate: 41 row: K column: 8
Seq primer: ATTTAGTGACACTATAG.
FEATURES   Location/Qualifiers
            source
            1..523
            /organism="Sus scrofa"
            /db_xref="taxon:9823"
            /clone_lib="MARCH 1PIG"
            /tissue_type="pooled"
            /lab_host="DH10B"
            /note="Vector: pCMV SPORT6; Site_1: NotI; Site_2: SalI;
            Library made from pooled tissue from day 11, 13, 15, 20,
            and 30 embryos."
BASE COUNT      97 a 170 c 169 g 87 t
ORIGIN

Query Match      50.4%; Score 124.4; DB 10; Length 523;
Best Local Similarity 84.1%; Pred. No. 6.9e-20;
Matches 153; Conservative 0; Mismatches 26; Indels 3; Gaps 1;

Qy 1 GAGGTGTGGCCACCCAGCTGCAGG---AGCAGGCTCCGATGGCGGAGCCCTGAACAGG 57
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 342 GAAGTGCAGCCACTTACGCTGCAGGAGAGCAGGTTCCAATGCCGAGCCCTGAGCAGG 401
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 58 AAGGAGAGTTTCTTGTCTCTCTCGCTGCACAAACCGCTGCGCAGCTGGTTCAGGCCCT 117
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

```

```
||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Db 402 AAGGAGAGCTTCTTGCTCCTCTGCTGCTGCACACCGCTGCGCAGCGGGTCCACCCCT 461
QY 118 GCGGCTGACATGCGGAGGCTGGACTGGAGTGACAGCTGGGCCCAACTGGCTCAAGCCAGG 177
|| || ||||||| || ||||||| || ||||||| || ||||||| || ||||||| || |||||||
Db 462 GCAGCCACATGCAGAGATGGACTGGAGCGGAGAGGCTGGCTCAACAGGCTCAGACCAGG 521
QY 178 GC 179
||
Db 522 GC 523
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Search completed: December 28, 2002, 20:45:42  
Job time : 333.93 secs



GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: December 28, 2002, 16:45:43 ; Search time 2505.87 Seconds  
(without alignments)  
12124.644 Million cell updates/sec

Title: US-09-944-896-49

Perfect score: 1876

Sequence: 1 ctctttgtccaccagccca.....tcagctgaaaaaaaaa 1876

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 32308132

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

EST:\*

1: em\_estba:\*

2: em\_esthum:\*

3: em\_estin:\*

4: em\_estmu:\*

5: em\_estcov:\*

6: em\_estpl:\*

7: em\_estro:\*

8: em\_htc:\*

9: gb\_est1:\*

10: gb\_est2:\*

11: gb\_htc:\*

12: gb\_est3:\*

13: gb\_est4:\*

14: gb\_est5:\*

15: em\_estfun:\*

16: em\_estom:\*

17: gb\_gss:\*

18: em\_gss\_hum:\*

19: em\_gss\_inv:\*

20: em\_gss\_pln:\*

21: em\_gss\_vrt:\*

22: em\_gss\_fun:\*

23: em\_gss\_mam:\*

24: em\_gss\_mus:\*

25: em\_gss\_other:\*

26: em\_gss\_pro:\*

27: em\_gss\_rod:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|-------------|
| 1          | 861.6 | 45.9        | 1034   | 14    | BM924615    |
| 2          | 790.6 | 42.1        | 1076   | 13    | BM547887    |
| 3          | 771.8 | 41.1        | 928    | 13    | BI517774    |
| 4          | 754   | 40.2        | 836    | 13    | BI764403    |
| 5          | 679.6 | 36.2        | 939    | 13    | BI757380    |
| 6          | 676   | 36.0        | 710    | 13    | BI760121    |

|      |       |      |     |    |            |
|------|-------|------|-----|----|------------|
| 7    | 636.6 | 33.9 | 709 | 13 | BI759120   |
| 8    | 622.2 | 33.2 | 645 | 14 | BM695392   |
| 9    | 610.2 | 32.5 | 916 | 13 | BI759353   |
| 10   | 589   | 31.4 | 852 | 13 | BI762690   |
| c 11 | 580   | 30.9 | 617 | 9  | AI307814   |
| c 12 | 579.8 | 30.9 | 704 | 9  | AL040183   |
| c 13 | 568.6 | 30.3 | 612 | 12 | BF057185   |
| c 14 | 564.4 | 30.1 | 744 | 14 | BQ006636   |
| c 15 | 564   | 30.1 | 611 | 11 | IO A299257 |
| c 16 | 556.4 | 29.7 | 612 | 14 | BQ446805   |
| c 17 | 513.8 | 27.4 | 578 | 14 | BQ720124   |
| c 18 | 490.2 | 26.1 | 495 | 9  | AI989724   |
| c 19 | 487.6 | 26.0 | 494 | 9  | AI433291   |
| c 20 | 487.4 | 26.0 | 490 | 10 | AW001740   |
| c 21 | 487   | 26.0 | 509 | 9  | AI627475   |
| c 22 | 453.4 | 24.2 | 460 | 10 | AW451907   |
| c 23 | 448.4 | 23.9 | 481 | 9  | AA976491   |
| c 24 | 444.8 | 23.7 | 463 | 9  | AI792411   |
| c 25 | 443.8 | 23.7 | 447 | 12 | BG150347   |
| c 26 | 439   | 23.4 | 460 | 9  | AI150446   |
| c 27 | 432   | 23.0 | 445 | 9  | AI589178   |
| c 28 | 419.8 | 22.4 | 500 | 13 | BI761101   |
| c 29 | 410.8 | 21.9 | 492 | 9  | AI827695   |
| c 30 | 402.6 | 21.5 | 409 | 10 | BE552150   |
| c 31 | 401.8 | 21.4 | 405 | 14 | BM708158   |
| c 32 | 376.2 | 20.1 | 385 | 10 | AW137750   |
| c 33 | 352.2 | 18.8 | 396 | 9  | AI863534   |
| c 34 | 339   | 18.1 | 383 | 9  | AA903561   |
| c 35 | 328   | 17.5 | 756 | 12 | BF527554   |
| c 36 | 325.2 | 17.3 | 330 | 9  | AA812725   |
| c 37 | 313.4 | 16.7 | 429 | 12 | BF198258   |
| c 38 | 304   | 16.2 | 312 | 9  | AI657201   |
| c 39 | 293.2 | 15.9 | 521 | 13 | BI340175   |
| c 40 | 297.2 | 15.8 | 411 | 14 | W79362     |
| c 41 | 286.4 | 15.3 | 288 | 9  | AA582202   |
| c 42 | 271.6 | 14.5 | 339 | 12 | BG608968   |
| c 43 | 265   | 14.1 | 470 | 10 | AW972808   |
| c 44 | 257   | 13.7 | 457 | 13 | BI759735   |
| c 45 | 241   | 12.8 | 264 | 9  | AI942280   |

#### ALIGNMENTS

RESULT 1  
BM924615  
LOCUS  
DEFINITION AGENCOURT\_6767842 NIH\_MGC\_116 Homo sapiens cDNA clone IMAGE:5761001  
5', mRNA sequence.  
ACCESSION BM924615  
VERSION BM924615.1 GI:19374994  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 1034)  
AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.  
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
JOURNAL Unpublished (1999)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: [cgapbs-re@mail.nih.gov](mailto:cgapbs-re@mail.nih.gov)  
Tissue Procurement: Life Technologies, Inc.  
CDNA Library Preparation: Life Technologies, Inc.  
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: Agencourt Bioscience Corporation  
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:  
<http://image.llnl.gov>  
Plate: LLAM12808 row: o column: 18  
High quality sequence stop: 685.  
Location/Qualifiers 1. .1034







QY 542 GTGTCTCCACACGACCTGTACACGACCTACGACCTGTGTGGCCACCTCAAGCCA 601  
 Db 480 GTGTCTCCACACGACCTGTACACGACCTACGACCTGTGTGGCCACCTCAAGCCA 539  
 QY 602 GCTGGCTGTGGCGCACCTGTGTCTGTGAGCCAGCAGCAGATAGAGCTTTGTCTG 661  
 Db 540 GCTGGCTGTGGCGCACCTGTGTCTGTGAGCCAGCAGCAGATAGAGCTTTGTCTG 599  
 QY 662 TGCCTACTCCCGGAGGCACTGGGAGGTCAACGGGAAGCAATATCCCTTATAAGAA 721  
 Db 600 TGCCTACTCCCGGAGGCACTGGGAGGTCAACGGGAAGCAATATCCCTTATAAGAA 659  
 QY 722 GGGTGCCTGGTGTTCGCTGTGCACAGCAGTGTCTCAGGCTGTTCAAAGCCTGGGACCA 781  
 Db 660 GGGTGCCTGGTGTTCGCTGTGCACAGCAGTGTCTCAGGCTGTTCAAAGCCTGGGACCA 719  
 QY 782 TGCAGGGGGGCTGTGTAGGTCTCCAGGAAATCCTT -GTGCGATGAGTGCAG -AACCAT 839  
 Db 720 TGCAGGGGGGCTGTGTAGGTCTCCAGGAAATCCTT -GTGCGATGAGTGCAG -AACCAT 779  
 QY 840 GGACGTCTCAACATCAGCAGCTGCACCTGCACCTGTCCCTGCTACACGGGCGAGATAC 899  
 Db 780 GGACGTCTCAACATCAG -ACCTGGCAGTGCACCTGTCCCTGCTGTACACGGGCGAGATAC 838  
 QY 900 T-GCCAAAGTGAAGTGCAGCTGCAGTG -TGTGCACGGCCGCTTCGGGA --GGAGGAGTG 955  
 Db 839 TGGCCAAAGTGAAGTGCAGCTGCAGTG -TGTGCACGGCCGCTTCGGGA --GGAGGAGTG 898  
 QY 956 CTCGTGCTGTGACATCGCTACGGGG 984  
 Db 899 CCCAGGGGCTCGGGAACATCGGAACGGGG 927

RESULT 4  
 LOCUS BI764403 836 bp mRNA linear EST 25-SEP-2001  
 DEFINITION 603046141F1 NIH\_MGC\_116 Homo sapiens cDNA clone IMAGE:5186219 5',  
 mRNA sequence.  
 ACCESSION BI764403  
 VERSION BI764403.1 GI:15755981  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 1 (bases 1 to 836)  
 NIH-MGC http://mgs.nci.nih.gov/.  
 National Institutes of Health, Mammalian Gene Collection (MGC)  
 Unpublished (1999)  
 Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs@mail.nih.gov  
 Tissue Procurement: Life Technologies, Inc.  
 cDNA Library preparation: Life Technologies, Inc.  
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
 DNA Sequencing by: Incyte Genomics, Inc.  
 Clone distribution: MGC clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
 http://image.llnl.gov  
 Plate: LLAM11465 row: b column: 12  
 High quality sequence stop: 761.  
 Location/Qualifiers  
 1. 836  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:5186219"  
 /clone\_lib="NIH\_MGC\_116"  
 /lab\_host="DH10B"  
 /note="Organ: pooled colon, kidney, stomach; Vector: pCMV-Sport6; Site:1: NotI; Site:2: EcoRV (destroyed); RNA source anonymous pool of 3 colons, age 26 yo male, 49 yo female, 71 yo male colon; 46 yo male kidney, and pool of 2 stomachs, 62 yo male and 70 yo female. Library is oligo-dT primed and directionally cloned (EcoRV site is

## FEATURES

source

destroyed upon cloning). Average insert size 1.4 kb, insert size range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 023. Note: this is a NIH\_MGC Library."

BASE COUNT 157 a 255 c 271 g 153 t  
 ORIGIN  
 Query Match 40.2%; Score 754; DB 13; Length 836;  
 Best Local Similarity 97.7%; Pred. No. 2e-159;  
 Matches 807; Conservative 0; Mismatches 15; Indels 4; Gaps 4;  
 QY 224 GGAGCAGGCTCCGATGGCCGGAGCCCTGAACAGGAGGAGAGTTTCTTCTCTCTCCCT 283  
 Db 1 GGAGCAGGCTCCGATGGCCGGAGCCCTGAACAGGAGGAGAGTTTCTTCTCTCTGGG 60  
 QY 284 GCACACCGGCTGCGCAGCTGGGTCCAGCCCTCGCGGTGACATCGGAGGCTGGAAGT 343  
 Db 61 GCACACCGGCTGCGCAGCTGGGTCCAGCCCTCGCGGTGACATCGGAGGCTGGAAGT 120  
 QY 344 GAGTGACAGCTGGCCCAACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCC 403  
 Db 121 GAGTGACAGCTGGCCCAACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCC 180  
 QY 404 GAGCTGGCATCCGCGCTGTGGCGCACCTGCAAGTGGGCTGGAACATGCAAGTGTGCC 463  
 Db 181 GAGCTGGCGTCCGCGCTGTGGCGCACCTGCAAGTGGGCTGGAACATGCAAGTGTGCC 240  
 QY 464 CGCGGGCTTGGCGTCTTTGTTGAAGTGTGACGCTATGTTTGCAGAGGGCGAGCGTA 523  
 Db 241 CGCGGGCTTGGCGTCTTTGTTGAAGTGTGACGCTATGTTTGCAGAGGGCGAGCGTA 300  
 QY 524 CAGCCACGCGCAGGAGAGTGTGTCGAACCCACCTGCACCCACTACACGAGCTCGT 583  
 Db 301 CAGCCACGCGCAGGAGAGTGTGTCGAACCCACCTGCACCCACTACACGAGCTCGT 360  
 QY 584 GTGGCCACCTCAAGCCAGCTGGGCTGTGGCGGACCTGTGCTGCGAGGCCAGCAGC 643  
 Db 361 GTGGCCACCTCAAGCCAGCTGGGCTGTGGCGGACCTGTGCTGCGAGGCCAGCAGC 420  
 QY 644 GATAGAAGCCTTTGTCTGTGCTACTCCCGGAGGCAACTGGGAGGTCAACGGGAAGAC 703  
 Db 421 GATAGAAGCCTTTGTCTGTGCTACTCCCGGAGGCAACTGGGAGGTCAACGGGAAGAC 480  
 QY 704 AATCATCCCTTATAGAAGGTGCTGTGTTGCTGCTGCACAGCAGTGTCTCAGGCTG 763  
 Db 481 AATCGTCCCTTATAGAAGGTGCTGTGTTGCTGCTGCACAGCAGTGTCTCAGGCTG 540  
 QY 764 CTTCAAAGCCTGGGACCATGCAAGGGGCTCTGTGAGGTCCCGAGGAATCTTGTGCGAT 823  
 Db 541 CTTCAAAGCCTGGGACCATGCA -GGGGGCTCTGTGAGGTCCCGAGGAATCTTGTGCGAT 599  
 QY 824 GAGTGGCAGAACCATGGACGCTCTCAACATCAGCAGCTGCCACTGCCACTGTCCCCCTGG 883  
 Db 600 GAGTGGCAGAACCATGGACGCTCTCAACATCAGCAGCTGCCACTGTCCCCCTGG 659  
 QY 884 CTACACGGGCGAGATCTGCAAGTGAAGTGAAGTGTGAGTGTGCAAGCGCGGTTCCG 943  
 Db 660 CTACACGGGCGAGATCTGCAAGTGAAGTGAAGTGTGAGTGTGCAAGCGCGGTTCCG 719  
 QY 944 GGAGGAGGAGTGTGCTG -CGTCTGT -GACATCGGCTACGGGGGAGGCCAGTGTGCCACC 1001  
 Db 720 GGAGGAGGAGTGTGCTGACGCTGTGAGGACATCGGCTACGGGGGAGGCCAGTGTGCCACC 779  
 QY 1002 AA-GGTGCTATTTCCCTTCCACACCTGTGACCTGAGGATCGACGGA 1046  
 Db 780 AAGGTGCTATTTCCCTTCCACACCTGTGACCTGAGGATCGACGGA 825

RESULT 5  
 LOCUS BI757380 939 bp mRNA linear EST 25-SEP-2001  
 DEFINITION 603029310F1 NIH\_MGC\_114 Homo sapiens cDNA clone IMAGE:5199674 5',



Query Match 36.0%; Score 676; DB 13; Length 710;  
Best Local Similarity 98.4%; Pred. No. 7.2e-142;  
Matches 693; Conservative 0; Mismatches 10; Indels 1; Gaps 1;

QY 209 GCCACCCAGCTGCAGGAGCAGCTCCGATGCCGAGCCCTGAACAGGAGAGATTT 268  
DB 6 GGCACCCAGCTGCAGGAGCAGCTCCGATGCCGAGCCCTGAACAGGAGAGATTT 65

QY 269 CTTGCTCTCTCCCTGCACAAACCGCTGGCGAGCTGGTCCAGCCCTCGCGGTGACAT 328  
DB 66 CTTGCTCTCTCCCTGCACAAACCGCTGGCGAGCTGGTCCAGCCCTCGCGGTGACAT 125

QY 329 GCGGAGGTGGACTGGAGTACAGCCTGGCCCAACTGGCTCAAGCCAGGCGCCCTCTG 388  
DB 126 GCGGAGGTGGACTGGAGTACAGCCTGGCCCAACTGGCTCAAGCCAGGCGCCCTCTG 185

QY 389 TGGATCCCAACCCAGGCTGGCATCCGGCTGTGGCGACCTGCAAGTGGCTGGAA 448  
DB 186 TGGAAACCCCAACCCAGGCTGGCATCCGGCTGTGGCGACCTGCAAGTGGCTGGAA 245

QY 449 CATGAGCTGTGCTGCCGCGGCTTGGCTGCTTGTGAAGTGGTCAAGCTATGTTTGC 508  
DB 246 CATGAGCTGTGCTGCCGCGGCTTGGCTGCTTGTGAAGTGGTCAAGCTATGTTTGC 305

QY 509 AGAGGGCAGCGGTACAGCCACGCGGAGGAGTGTGCTCGCAACGCCACCTGCACCCA 568  
DB 306 AGAGGGCAGCGGTACAGCCACGCGGAGGAGTGTGCTCGCAACGCCACCTGCACCCA 365

QY 569 CTACAGCAGCTGTGTTGGCCACCTCAAGCCAGCTGGGCTGTGGCGGACCTGTGCTC 628  
DB 366 CTACAGCAGCTGTGTTGGCCACCTCAAGCCAGCTGGGCTGTGGCGGACCTGTGCTC 425

QY 629 TGCAGGCCAGACGATAGAAGCCTTTGCTGTGCTTACTCCCGAGGCAACTGGGA 688  
DB 426 TGCAGGCCAGCAGATAGAAGCCTTTGCTGTGCTTACTCCCGAGGCAACTGGGA 485

QY 689 GGTCAACGGGAAGACAATCATCCCTATTAAGAGGCTGCTGTGTTGCTCTGCACAGC 748  
DB 486 GGTCAACGGGAAGACAATCATCCCTATTAAGAGGCTGCTGTGTTGCTCTGCACAGC 545

QY 749 CAGTGTCTCAGCTGCTCAAGCCTGGGACCATGAGGCGGCTCTGTAGGTCCCCAG 808  
DB 546 CAGTGTCTCAGCTGCTCAAGCCTGGGACCATGAGGCGGCTCTGTAGGTCCCCAG 605

QY 809 GAATCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 868  
DB 606 GAATCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 665

QY 869 CCAGTGTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 911  
DB 666 CCAGTGTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 709

RESULT 7  
BI759120  
LOCUS 603042530Fl NIH\_MGC\_116 Homo sapiens cDNA clone IMAGE:5182999 5',  
DEFINITION mRNA sequence.  
ACCESSION BI759120  
VERSION BI759120.1 GI:15750698  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 709)  
AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.  
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
JOURNAL Unpublished (1999)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: [caapbs-remail.nih.gov](mailto:caapbs-remail.nih.gov)  
Tissue Procurement: Life Technologies, Inc.

cdna Library Preparation: Life Technologies, Inc.  
cdna Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: Incyte Genomics, Inc.  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
<http://image.llnl.gov>  
Plate: LLAM11456 row: 1 column: 08  
High quality sequence stop: 709.

## FEATURES

Location/Qualifiers  
1..709  
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/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:5182999"  
/clone\_lib="NIH\_MGC\_116"  
/lab\_host="DH10B"  
/note="Organ: pooled colon, kidney, stomach; Vector:  
pCMV-SPORT6; Site\_1: NotI; Site\_2: EcoRV (destroyed); RNA  
source anonymous pool of 3 colons, age 26 yo male, 49 yo  
female, 71 yo male colon; 46 yo male kidney, and pool of 2  
stomachs, 62 yo male and 70 yo female. Library is  
oligo-dT primed and directionally cloned (EcoRV site is  
destroyed upon cloning). Average insert size 1.4 kb,  
insert size range 1-3 kb. Library is normalized and  
enriched for full-length clones and was constructed by C.  
Gruber (Invitrogen). Research Genetics tracking code  
023. Note: this is a NIH\_MGC Library."

BASE COUNT 124 a 240 c 220 g 125 t  
ORIGIN

Query Match 33.9%; Score 636.6; DB 13; Length 709;  
Best Local Similarity 98.5%; Pred. No. 5.5e-133;  
Matches 653; Conservative 0; Mismatches 9; Indels 1; Gaps 1;

QY 1 CTCCTTTGTCCACAGCCAGCTGACTCCTGGAGATTGTGAATAGCTCCATCCAGCCG 60  
DB 48 CTCCTTTGTCCACAGCCAGCTGACTCCTGGAGATTGTGAATAGCTCCATCCAGCCG 107

QY 61 AGAAACAAGCCGGTGGCTGAGCCAGCTGTGCAGGAGCACCTTGACGGGCCCCAACAGAC 120  
DB 108 AGAAACAAGCCGGTGGCTGAGCCAGCTGTGCAGGAGCCCTGACGGGCCCCAACAGAC 167

QY 121 CCATGCTGATCCAGAGACCTCCCTGGCGGGGGGATCTCCTGGCTGTGCTGTGGCCC 180  
DB 168 CCATGCTGATCCAGAGACCTCCCTGGCGGGGGGATCTCCTGGCTGTGCTGTGGCCC 227

QY 181 TCCTTGGCACCACCTGGGCGAGGTGTGGCCACCCTGACCTGCAGGAGAGGCTCCGATGG 240  
DB 228 TCCTTGGCACCACCTGGGCGAGGTGTGGCCACCCTGACCTGCAGGAGAGGCTCCGATGG 287

QY 241 CCGGAGCCCTGAACAGGAGGAGGTTTCTTGTCTCTCTCCCTGCACAAACCCCTGCGCA 300  
DB 288 CCGGAGCCCTGAACAGGAGGAGGTTTCTTGTCTCTCTCCCTGCACAAACCCCTGCGCA 347

QY 301 GCTGGTCCAGCCCCCTGCGGCTGACATGCGAGGCTGGAGTGGAGTGACAGCCCTGGCCC 360  
DB 348 GCTGGTCCAGCCCCCTGCGGCTGACATGCGAGGCTGGAGTGGAGTGACAGCCCTGGCCC 407

QY 361 AACTGGCTCAAGCCAGGCGACCTCTGTGAATCCCAACCCCGAGCTGGCATCCGGCC 420  
DB 408 AGCTGGCTCAAGCCA-GGCAGCCCTCTGTGAACCCCAACCCCGAGCTGGCGTCCGGCC 466

QY 421 TGTGGCGCACCCCTGCAAGTGGGCTGGAACATGCAGCTGTCTCCCGCGGCTTGGCGTCT 480  
DB 467 TGTGGCGCACCCCTGCAAGTGGGCTGGAACATGCAGCTGTCTCCCGCGGCTTGGCGTCT 526

QY 481 TTGTTGAAGTGTTCAGCCTATGTTTTCAGAGGGGCGAGCGGTACAGCCACGCGGAGGAG 540  
DB 527 TTGTTGAAGTGTTCAGCCTATGTTTTCAGAGGGGCGAGCGGTACAGCCACGCGGAGGAG 586

QY 541 AGTGTCTCGCAACGCCACCTGCACCCACTACACGAGCTGTGTGGGCCACCTCAAGCC 600  
DB 587 AGTGTCTCGCAACGCCACCTGCACCCACTACATGCAGCTGTGTGGGCCACCTCAAGCC 646

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QY 601 AGCTGGGCTGTGGGGCGACCTGTCTGCGAGCCAGCAGCAGATAGAGCCCTTTGCT 660
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Db 647 AGCTGGGCTGTGGGGCGACCTGTCTGCGAGCCAGCAGCAGATAGAGCCCTTTGCT 706
|||||
QY 661 GTG 663
|||
Db 707 GTG 709

RESULT 8
BM695392
LOCUS
DEFINITION
  UI-E-CQ1-aev-n-19-0-UI.r1 UI-E-CQ1 Homo sapiens cDNA clone
  UI-E-CQ1-aev-n-19-0-UI 5', mRNA sequence.
ACCESSION
  BM695392
VERSION
  EST.
KEYWORDS
  human.
SOURCE
  Homo sapiens
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
  1 (bases 1 to 645)
  Bonaldo,M.F., Lennon,G. and Soares,M.B.
  Normalization and subtraction: two approaches to facilitate gene
  discovery
  Genome Res. 6 (9), 791-806 (1996)
JOURNAL
  9704477
MEDLINE
  Contact: Soares, MB
  Program for Rat Gene Discovery and Mapping
  University of Iowa
  451 Eckstein Medical Research Building Iowa City, IA 52242, USA
  Tel: 319 335 8250
  Fax: 319 335 9565
  Email: msoares@blue.weeg.uiowa.edu
  Tissue Procurement: Dr. Gregg Hageman
  cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
  cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
  DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
  Clone Distribution: Researchers may obtain clones from Research
  Genetics (www.resgen.com).
Seq primer: M13 Reverse.
Location/Qualifiers
  1..645
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  /db_xref="taxon:9606"
  /clone="UI-E-CQ1-aev-n-19-0-UI"
  /clone_lib="UI-E-CQ1"
  /tissue_type="optic nerve"
  /dev_stage="adult"
  /lab_host="DH10B (Life Technologies) (T1 phage resistant)"
  /note="Organ: eye; Vector: pT73-Pac (Pharmacia) with a
  modified polylinker; Site_1: EcoR I; Site_2: Not I;
  UI-E-CQ1 is a normalized cDNA library containing the
  following tissue(s): optic nerve. The library was
  constructed according to Bonaldo, Lennon and Soares,
  Genome Research, 6:791-806, 1996. First strand cDNA
  synthesis was primed with an oligo-dT primer containing a
  Not I site. Double stranded cDNA was ligated to an EcoR I
  adaptor, digested with Not I, and cloned directionally
  into pT73-Pac vector. The oligonucleotide used to prime
  the synthesis of first-strand cDNA contains a library tag
  sequence that is located between the Not I site and the
  (dT)18 tail. The sequence tag for this library is
  CCATTAAGTG. This library was created for the program, Gene
  Discovery in the Visual System, supported by National Eye
  Institute (NEI)."
BASE COUNT
  136 a 187 c 196 g 126 t
ORIGIN

Query Match
Best Local Similarity 33.2%; Score 622.2; DB 14; Length 645;
Matches 624; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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QY 712 CCTATAGAAGGGTGCTGCTGTTCGCTCTGCACAGCCAGCTGTCTCAGGCTGCTTCAAG 771
|||||
Db 1 CCTATAGAAGGGTGCTGCTGTTCGCTCTGCACAGCCAGCTGTCTCAGGCTGCTTCAAG 60
|||||
QY 772 CCTGGGACCATTGACAGGGGGGCTGTGAGGTCCCAAGATCCCTTGTGCGATGAGCTGCC 831
|||||
Db 61 CCTGGGACCATTGACAGGGGGGCTGTGAGGTCCCAAGATCCCTTGTGCGATGAGCTGCC 120
|||||
QY 832 AGACCATGGACGTCCTCAACATCAGCACTGCCACTGCTCCCTCGCTCCCTCGCTACACGG 891
|||||
Db 121 AGAACCATGGACGTCCTCAACATCAGCACTGCCACTGCTCCCTCGCTACACGG 180
|||||
QY 892 GCAGATACTGCCAAGTGTGAGGTGTCAGCTGTGTGTGTCACAGCGCGGTTCGCGGAGGAGG 951
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Db 181 GCAGATACTGCCAAGTGTGAGGTGTCAGCTGTGTGTGTCACAGCGCGGTTCGCGGAGGAGG 240
|||||
QY 952 AGTCTGTGCTGCTGTGACATCGGCTACGGGGGAGCCAGCTGTCACCAAGGTGCATT 1011
|||||
Db 241 AGTCTGTGCTGCTGTGACATCGGCTACGGGGGAGCCAGTGTGCCACCAAGGTGCATT 300
|||||
QY 1012 TTCCTTCCACACCTGTGACCTGAGGATCGACGGAGACTGCTTCATGCTGCTTCAGAGG 1071
|||||
Db 301 TTCCTTCCACACCTGTGACCTGAGGATCGACGGAGACTGCTTCATGCTGCTTCAGAGG 360
|||||
QY 1072 CAGACACCTATTACAGAGCCAGGATGAATGTTCAGAGAAAGCGGGGTGCTGGCCCAAGA 1131
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Db 361 CAGACACCTATTACAGAGCCAGGATGAATGTTCAGAGAAAGCGGGGTGCTGGCCCAAGA 420
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Db 421 TCAGAGCCAGAAAGTGCAGGACATCCCTCGGCTTCTATCTGGCGCCCTGGAGACACCA 480
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QY 1192 ACGAGGTGACTGACAGTCACTTCGAGACAGCAAACTTCTGGATCGGGCTCACTACAAGA 1251
|||||
Db 481 ACGAGTCACTGACAGTCACTTCGAGACAGCAAACTTCTGGATCGGGCTCACTACAAGA 540
|||||
QY 1252 CGCGCAAGACTCTTCCTCGCTGGCGCCACAGGGGAGACACAGCCCTTCACCAAGTTCCT 1311
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Db 541 CGCGCAAGACTCTTCCTCGCTGGCGCCACAGGGGAGACACAGCCCTTCACCAAGTTCCT 600
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QY 1312 TTGGCGAGCCTGACAAACACAGGGGTGG 1338
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Db 601 TTGGCGAGCCTGACAAACACAGGGGTGG 627
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RESULT 9
LOCUS
DEFINITION
  603043013r1 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:518330 5',
  mRNA sequence.
ACCESSION
  BI759353
VERSION
  BI759353.1 GI:15750931
KEYWORDS
  EST.
SOURCE
  human.
ORGANISM
  Homo sapiens
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
  1 (bases 1 to 916)
  NIH-MGC http://mgc.nci.nih.gov/.
AUTHORS
  National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL
  Unpublished (1999)
COMMENT
  Contact: Robert Strausberg, Ph.D.
  Email: cgapbs-r@mail.nih.gov
  Tissue Procurement: Life Technologies, Inc.
  cDNA Library preparation: Life Technologies, Inc.
  cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
  DNA Sequencing by: Incyte Genomics, Inc.
  Clone distribution: MGC clone distribution information can be
  found through the I.M.A.G.E. Consortium/LLNL at:
  http://image.llnl.gov
  Plate: LLAM11457 row: j column: 03
  High quality sequence stop: 723.
  Location/Qualifiers

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FEATURES

|                       |   |   |                        |
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| Db                    | 740   | ATCCCCCTATAGAGAGGTGGCTGGCTTGCCTCTTGCACAGCCAGTGTCTCAGGCTGCTT   | 799                    |
| QY                    | 767   | CAAGACTGGGACCATGCAGGGGGGCTCTGTGAGGTCCCCAGCAATCTTGTGCGCATGAG   | 836                    |
| Db                    | 800   | C-RAGCCTGTGGACCTGCCGGGGCCCTCTGTGAGTCCCAAGGAATCCCTGTGTCGCGATCA | 858                    |
| QY                    | 827   | CTGCCAGAACCA-TGGACGTCTCAACATCAGCACCCTGCCACTGCCACTGFCGCCCTG    | 882                    |
| Db                    | 859   | CTGCCGAACCATTGCACGTCTCGGCATCGCCTCTGCCATTGGCATTGGTCCCCCTG      | 915                    |
| RESULT 10             |   |   |                        |
| BI762690              |   |   |                        |
| LOCUS                 | 603048444F1 NIH_MGC_116   | 852 bp  | mRNA linear EST 25-SEP |
| DEFINITION            | mRNA sequence.  |   |                        |
| ACCESSION             | BI762690  |   |                        |
| VERSION               | BI762690.1  | GI:15754256   |                        |
| KEYWORDS              | EST.  |   |                        |
| SOURCE                | human.  |   |                        |
| ORGANISM              | Homo sapiens  |   |                        |
| REFERENCE             | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  |   |                        |
| AUTHORS               | NIH-MGC   | http://mgi.nci.nih.gov/                                       |                        |
| TITLE                 | National Institutes of Health, Mammalian Gene Collection (MGC)  |   |                        |
| JOURNAL               | Unpublished (1999)  |   |                        |
| COMMENT               | Contact: Robert Strausberg, Ph.D.<br>Email: cgabbs-remail.nih.gov<br>CDNA Library Preparation: Life Technologies, Inc.<br>CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)<br>DNA Sequencing by: Incyte Genomics, Inc.<br>Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <a href="http://image.llnl.gov">http://image.llnl.gov</a><br>Plate: LLAM11471 row: g column: 12<br>High quality sequence stop: 849.   |   |                        |
| FEATURES              | Location/Qualifiers   |   |                        |
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|                       | /clone="IMAGE:5188643"  |   |                        |
|                       | /clone_lib="NIH_MGC_116"  |   |                        |
|                       | /lab_host="DH10B"   |   |                        |
|                       | /note="Organ: pooled colon, kidney, stomach; Vector: pCMV-SPORT6; Site_1: Noti; Site_2: EcorV (destroyed); source anonymous pool of 3 colons, age 26 yo male, 49 female, 71 yo male colon; 46 yo male kidney, and pool stomachs, 62 yo male and 70 yo female. Library is oligo-dT primed and directionally cloned (EcorV site destroyed upon cloning). Average insert size 1.4 kb, insert size range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by Gruber (in vitro). Research Genetics tracking code 023. Note: this is a NIH_MGC Library." |   |                        |
| BASE COUNT            | 146 a   | 283 c   | 269 g                  |
| ORIGIN                | 154 t   |   |                        |
| Query Match           | 31.4%   | Score 589;  | DB 13; Length 852;     |
| Best Local Similarity | 96.0%   | Pred. No. 3e-122;   |                        |
| Matches 679;          | Conservative 0;   | Mismatches 20;  | Indels 8; Gaps         |
| QY                    | 1   | CTCTTTTTCACAGCCAGCCTGACTCCTGGAGATTGTAATAGTCCATCCAGCCTG        | 60                     |
| Db                    | 136   | CTCTTTTTCACAGCCAGCCTGACTCCTGGAGATTGTAATAGTCCATCCAGCCTG        | 195                    |
| QY                    | 61  | AGAAACAAGCCGGTGGCTGAGCCAGGTGTCACGGAGCACCTGACGGGCCACACAG       | 120                    |
| Db                    | 196   | AGAAACAAGCCGGTGGCTGAGCCAGGTGTCACGGAGTGCCTGACGGGCCACACAG       | 255                    |
| QY                    | 121   | CCATGCTGATCCAGAGACCTCCCTTGGCCGGGGGCATCTCTCTGGCTGTGCTCTGGCC    | 180                    |

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/db_xref="taxon:9606"
/clone="IMAGE:2055669"
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/tissue_type="2 pooled tumors (clear cell type)"
/lab_host="DH10B"
/notes="Organ: kidney; Vector: pT73D-Pac (Pharmacia) with
a modified polylinker; Site_1: Not 1; Site_2: Eco RI;
Plasmid DNA from the normalized library NCI_CGAP_Kid5 was
prepared, and ss circles were made in vitro. Following HAP
purification, and ss circles were used as tracer in a subtractive
hybridization reaction. The driver was PCR-amplified cDNAs
from a pool of 5,000 clones made from the same library
(CloneIDs 1323912-1325831, 1471368-1472903 and
1492104-1493255). Subtraction by Bento Soares and M.
Fatima Bonaldo."
BASE COUNT      118 a 182 c 179 g 138 t
ORIGIN

Query Match      30.9%; Score 580; DB 9; Length 617;
Best Local Similarity 95.8%; Pred. No. 3e-120;
Matches 617; Conservative 0; Mismatches 0; Indels 27; Gaps 1;

QY 1227 TTCGTGATCGGGCTCACCAGAGCCGCAAGAGACTCCTTCCGCTGGGCCACACGGGAG 1286
Db 617 TTCGTGATCGGGCTCACCAGAGCCGCAAGAGACTCCTTCCGCTGGGCCACACGGGAG 558

QY 1287 CACCAAGGCTTCCACAGATTTTGGCCAGCTGACACACCGGGCTGGTGTGGCTG 1346
Db 557 CACCAAGGCTTCCACAGATTTTGGCCAGCTGACACACCGGGCTGGTGTGGCTG 513

QY 1347 AGTGTGCTGATGGGCTTTGGCAACTGCGTGGAGCTGACAGCTTCAGCTGCCCTTCAACTGG 1406
Db 512 -----GGGTTTGGCAACTGCGTGGAGCTGACAGCTTCAGCTGCCCTTCAACTGG 465

QY 1407 AACGACCGCTGCAAAACCCGAAACCGTTACATCTGCCAGTTGCCCGAGGACACATC 1466
Db 464 AACGACCGCTGCAAAACCCGAAACCGTTACATCTGCCAGTTGCCCGAGGACACATC 405

QY 1467 TCCCGGTGGGGCCAGGGTCTGAGGCTTGACCATGCTCCCTGCTGCCCTGGGAG 1526
Db 404 TCCCGGTGGGGCCAGGGTCTGAGGCTTGACCATGCTCCCTGCTGCCCTGGGAG 345

QY 1527 CACCGGCTGCTGTACCTGCTGCCACCTGTCTGGAACAGGGCCAGGTTAAGACCA 1586
Db 344 CACCGGCTGCTGTACCTGCTGCCACCTGTCTGGAACAGGGCCAGGTTAAGACCA 285

QY 1587 TGCCTCATGTCACAAAGAGGTCTCAGACCTTGACATGCTCCCTGCTGCCCTGGGAG 1646
Db 284 TGCCTCATGTCACAAAGAGGTCTCAGACCTTGACATGCTCCCTGCTGCCCTGGGAG 225

QY 1647 CAGGAGGCTGAGGGCCAGGGAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAG 1706
Db 224 CAGGAGGCTGAGGGCCAGGGAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAG 165

QY 1707 TTTTGTGTTGGAGATGGCTTCAATTAGATGCGGAGGAGGACACCGCCAGTGGTCC 1766
Db 164 TTTTGTGTTGGAGATGGCTTCAATTAGATGCGGAGGAGGACACCGCCAGTGGTCC 105

QY 1767 AAAAGGCTGCTCTCTTCCACCTGGCCAGACCTCTGGGGCAGCGAGGCTTCCCTGTGG 1826
Db 104 AAAAGGCTGCTCTCTTCCACCTGGCCAGACCTCTGGGGCAGCGAGGCTTCCCTGTGG 45

QY 1827 CATGAACCCCGGGGTATTAATATGATGATGATGATGATGATGATGATGATGATGAT 1870
Db 44 CATGAACCCCGGGGTATTAATATGATGATGATGATGATGATGATGATGATGATGATGAT 1

RESULT 12
AL040183 704 bp mRNA linear EST 29-FEB-2000
LOCUS DKF2p434F2413_r1 434 (synonym: htes3) Homo sapiens cDNA clone
DEFINITION DKF2p434F2413 5', mRNA sequence.
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ACCESSION AL040183  
VERSION AL040183.1 GI:5409148  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
AUTHORS Koehrer, K., Beyer, A., Mewes, H.W., Gassenhuber, J. and Wiemann, S.  
TITLE 1 (bases 1 to 704)  
JOURNAL EST (Koehrer, et al.)  
COMMENT Unpublished (1999)  
Contact: Koehrer K  
MIPS  
Am Klopferspitz 18a D-82152 Martinsried, Germany  
This is the 5' sequence of the clone insert  
Clone from S. Wiemann, Molecular Genome Analysis, German Cancer  
Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;  
sequenced by BMFZ (Biomedical Research Center at the Charite,  
Berlin/Germany) within the cDNA sequencing consortium of the German  
Genome Project.  
SI sequence also available.  
This clone (DKFZp34F2413) is available at the RZPD in Berlin.  
Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059  
Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.  
BASE COUNT 150 a 207 c 207 g 139 t 1 others  
ORIGIN  
1..704  
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/note="Vector: pSport1; Site\_1: NotI; Site\_2: SalI"  
Query Match 30.9%; Score 579.8; DB 9; Length 704;  
Best Local Similarity 97.1%; Pred. No. 3.4e-120;  
Matches 604; Conservative 0; Mismatches 13; Indels 7; Gaps 7;  
QY 657 GTCTGTGCTTACTCCCGGAGGCACTGGGAGGTCAACGGGAAGACAATCATCCCTAT 716  
DB 1 GTCTGTGCTTACTCCCGGAGGCACTGGGAGGTCAACGGGAAGACAATCGTCCCTAT 60  
QY 717 AAGAGGGTCCCTGGTGTGCTCTGCACAGCCAGTGTCTCAGGCTGCTTCAAGCCCTGG 776  
DB 61 AAGAGGGTCCCTGGTGTGCTCTGCACAGCCAGTGTCTCAGGCTGCTTCAAGCCCTGG 120  
QY 777 GACCATGCAGGGGGGCTCTGTGAGGTCCCGCAGGAATCTTGTGCGATGAGTGCAGAAC 836  
DB 121 GACCATGCAGGGGGGCTCTGTGAGGTCCCGCAGGAATCTTGTGCGATGAGTGCAGAAC 180  
QY 837 CATGGACGTCTCAACATCAGCACTGCCACTGTCACCTGCCCTGGCTACACGGGCGA 896  
DB 181 CACGGACGTCTCAACATCAGCACTGCCACTGTCACCTGCCCTGGCTACACGGGCGA 240  
QY 897 TACTGCCAAGTAGGTCAGCTGTCAGCTGTGTCACGGCCGGTTCGGGAGGAGGATGC 956  
DB 241 TACTGCCAAGTAGGTCAGCTGTCAGCTGTGTCACGGCCGGTTCGGGAGGAGGATGC 300  
QY 957 TCGTGGCTGTGACATCGCTACGGGGAGCCAGTGTGCCACCAAGTGCATTTTCCC 1016  
DB 301 TCGTGGCTGTGACATCGCTAC - GGGAGGCCAGTGTGCCACCAAGTGCATTTTCCC 359  
QY 1017 TTCCACACCTGTGACCTGAGGATCGACGAGACTGCTTCATGGTGTTC - AGAGGCGA 1075  
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VERSION BF057185  
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SOURCE human.  
ORGANISM Homo sapiens  
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
AUTHORS 1 (bases 1 to 612)  
TITLE NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
JOURNAL National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
COMMENT Unpublished (1997)  
Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-r@mail.nih.gov  
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael  
R. Emmert-Buck, M.D., Ph.D.  
cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima  
Bonaldo, Ph.D.  
cDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL, send email to:  
info@image.llnl.gov  
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High quality sequence stop: 446.  
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ss circles were made in vitro. Following HAP purification,  
this DNA was used as tracer in a subtractive hybridization  
reaction. The driver was PCR-amplified cDNAs from a pool  
of 5,000 clones made from the same library (clonids  
1257096-1258631, 1469064-1470983, and 1475592-1476743).  
Subtraction by Bento Soares and M. Fatima Bonaldo."  
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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NCI-CCAP http://www.ncbi.nlm.nih.gov/nciccap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: craps-r@mail.nih.gov
Tissue Procurement: Dr. Jose Mercuende
cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Clone distribution information can be found
through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
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Genome Research, 6:791-806, 1996. First strand cDNA
synthesis was primed with an oligo-dT primer containing a
Not I site. Double stranded cDNA was ligated to an EcoR I
adaptor, digested with Not I, and cloned directionally
into pT73-Pac vector. The oligonucleotide used to prime
the synthesis of first-strand cDNA contains a library tag
sequence that is located between the Not I site and the
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Best Local Similarity 95.5%; Pred. No. 1e-116;
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VERSION  
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE  
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NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
Unpublished (1997)  
Contact: Robert Strausberg, Ph.D.  
Email: [cgaps-remail.nih.gov](mailto:cgaps-remail.nih.gov)  
Tissue procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
Emmert-Buck, M.D., Ph.D.  
cDNA Library Preparation: M. Bento Soares, Ph.D.  
cDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
[www-bio.llnl.gov/bbrp/image/image.html](http://www-bio.llnl.gov/bbrp/image/image.html)  
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prepared, and ss circles were made in vitro. Following HAP  
purification, this DNA was used as tracer in a subtractive  
hybridization reaction. The driver was PCR-amplified cDNAs  
from a pool of 5,000 clones made from the same library  
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1500552-1502855). Subtraction by Bento Soares and M.  
Fatima Bonaldo."

BASE COUNT 117 a 181 c 179 g 132 t 2 others  
ORIGIN

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Matches 604; Conservative 0; Mismatches 7; Indels 27; Gaps 1;

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GenCore version 5.1.3  
Copyright (c) 1993 - 2002 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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| 5          | 42.6  | 2.3         | 3259    | 5  | PCT-US95-03747-1   |
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36 37.2 2.0 3956 4 US-09-688-307A-97 Sequence 12, Appl  
37 37.2 2.0 749 4 US-09-257-583-12 Sequence 61, Appl  
38 37.2 2.0 2348 4 US-08-990-823-61 Sequence 3, Appl  
39 36.4 1.9 1227 3 US-09-074-912-3 Sequence 3, Appl  
40 36.4 1.9 1227 4 US-09-290-136-3 Sequence 2, Appl  
41 36.2 1.9 970 2 US-08-773-368-2 Sequence 2, Appl  
42 36.2 1.9 970 3 US-09-199-887-2 Sequence 2, Appl  
43 36.2 1.9 1436 4 US-09-471-396-2 Sequence 2, Appl  
44 36.2 1.9 13842 4 US-09-105-537-30 Sequence 30, Appl  
45 36.2 1.9 36778 4 US-09-105-537-5 Sequence 5, Appl

## ALIGNMENTS

RESULT 1  
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; Patent No. 6468546  
; GENERAL INFORMATION:  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: King, Gordon E.  
; APPLICANT: Algate, Paul A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF OVARIAN CANCER  
; FILE REFERENCE: 210121.462C2  
; CURRENT APPLICATION NUMBER: US/09/404, 879A  
; NUMBER OF SEQ ID NOS: 393  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 321  
; LENGTH: 690  
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; ORGANISM: Homo sapiens  
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; NAME/KEY: misc.feature  
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; OTHER INFORMATION: n = A,T,C or G  
US-09-404-879A-321

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Best Local Similarity 99.3%; Pred. No. 4.2e-162;  
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## RESULT 2

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; Sequence 3, Application US/09433248A  
; Patent No. 6355462  
; GENERAL INFORMATION:  
; APPLICANT: Falco, S. Carl  
; APPLICANT: Famodu, Omolayo O.  
; APPLICANT: Han, Feng  
; APPLICANT: Rafalski, J. Antoni  
; TITLE OF INVENTION: Disease Resistance Factors  
; FILE REFERENCE: BB1252 US NA  
; CURRENT APPLICATION NUMBER: US/09/433,248A  
; CURRENT FILING DATE: 1999-11-04  
; PRIOR APPLICATION NUMBER: 60/107,242  
; PRIOR FILING DATE: 1998-11-05  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: Microsoft Office 97  
; SEQ ID NO 3  
; LENGTH: 582  
; TYPE: DNA  
; ORGANISM: Oryza sativa  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (337)  
; NAME/KEY: unsure  
; LOCATION: (370)  
; NAME/KEY: unsure  
; LOCATION: (421)  
; NAME/KEY: unsure  
; LOCATION: (437)  
; NAME/KEY: unsure  
; LOCATION: (481)  
; NAME/KEY: unsure  
; LOCATION: (484)  
; NAME/KEY: unsure  
; LOCATION: (502)  
; NAME/KEY: unsure  
; LOCATION: (511)  
; NAME/KEY: unsure  
; LOCATION: (542)  
; NAME/KEY: unsure  
; LOCATION: (547)  
; NAME/KEY: unsure  
; LOCATION: (564)  
; NAME/KEY: unsure

; LOCATION: (571)  
US-09-433-248A-3

Query Match 2.5%; Score 47.8; DB 4; Length 582;  
Best Local Similarity 50.2%; Pred. No. 0.0047;  
Matches 118; Conservative 0; Mismatches 117; Indels 0; Gaps 0;

QY 1210 ACTTCGAGACCAAGAACTTCTGGATCGGGCTCACCTACAGACCGCAAGGACTCTCTCC 1269  
Db 1 ACATCTGAAACGGACCATCGCATGGACACCTCCCAAGGCCACCTCCGACTACGTCC 60  
QY 1270 GCTGGCCACAGGGAGGACACCGCCTTCACCAAGTTTTCCTTTGGGCAAGCTGACAACC 1329  
Db 61 GGCAAGCCATCGGACGGGACACGTGGAGCGCCATCTTCGGGTGGTTCGCGCGGCCCAACG 120  
QY 1330 AGGGCTGGTGGCTGAGTGTGCATGCCATGGGTTTGGCAACTCGGTGGAGCTGAGGCTT 1389  
Db 121 CGGGCTGATGATCTGTGGACCCGTAGCGGCGGACATCGGCAGCTGGCGGAGCGCGCA 180  
QY 1390 CAGCTGCGCTTCAACTGGAACGACGACGCTGCAAAACCGGAAACCGTTACATCTG 1444  
Db 181 CGCGTTCGCGACCGCGGCGGTGCTCTACAACATCCAGTACATGAACTTCTG 235

## RESULT 3

US-08-387-942C-18  
; Sequence 18, Application US/08387942C  
; Patent No. 5939289  
; GENERAL INFORMATION:  
; APPLICANT: ERTESVAG, HELGA  
; APPLICANT: VALLA, SVEIN  
; APPLICANT: SKJAK-BRAEK, GUDMUND  
; APPLICANT: LARSEN, BJORN  
; TITLE OF INVENTION: DNA COMPOUNDS COMPRISING SEQUENCES  
; TITLE OF INVENTION: ENCODING MANNURONAN C-5-EPIMERASE  
; NUMBER OF SEQUENCES: 52  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: BIRCH, STEWART, KOLASCH & BIRCH, LLP  
; STREET: P.O. BOX 747  
; CITY: FALLS CHURCH  
; STATE: VA  
; COUNTRY: USA  
; ZIP: 22042  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/387,942C  
; FILING DATE: 09-MAY-1995  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: MURPHY JR, GERALD M.  
; REGISTRATION NUMBER: 28,977  
; REFERENCE/DOCKET NUMBER: 1809-106P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 703-205-8000  
; TELEFAX: 703-205-8050  
; INFORMATION FOR SEQ ID NO: 18:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1155 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-08-387-942C-18

Query Match 2.3%; Score 43.4; DB 2; Length 1155;  
Best Local Similarity 49.8%; Pred. No. 0.081;  
Matches 110; Conservative 0; Mismatches 111; Indels 0; Gaps 0;

QY 1016 CTTCACACCTGTGACCTGAGGATCGGAGACTGCTTCACTGGTCTTTCAGAGCGAGA 1075

Db 297 CTTGGCATGAGCAGCTGACCTCGAGCGCAACCGGACAAACCTGTCTCGCCCAAGTCTGA 356  
QY 1076 CACCTATTACAGCAGCAGATGAATGTACAGAGAAAGCGGGTCTCTGCCAGATCAA 1135  
Db 357 CGGCTGGTTCAACGGCTACATCCCGGCGCAGGACGCGCGGATCGGAGCGTGACCTTGA 416  
QY 1136 GAGCAGAAAGTGCAGGACATCCTCGCCTTCTATCTGGCGCGCTGGAGACCAACCA 1195  
Db 417 CGGGTGAATCCGAGATGTCGCTACCGTTTCGACCCCGCAGGACGACGACCATCAA 476  
QY 1196 GGTGACTGACAGTACTTCGAGACCAAGAACTTCTGGATCG 1236  
Db 477 CCTGACGATCGGACAGCGTGGCCCGCAGCAACAGCCTCG 517

## RESULT 4

US-08-387-942C-1

; Sequence 1, Application US/08387942C  
; Patent No. 5939289  
; GENERAL INFORMATION:  
; APPLICANT: ERTESVAG, HELGA  
; APPLICANT: VALLA, SVEIN  
; APPLICANT: SKJAK-BRAEK, GUDMUND  
; APPLICANT: LARSEN, BJORN  
; TITLE OF INVENTION: DNA COMPOUNDS COMPRISING SEQUENCES  
; TITLE OF INVENTION: ENCODING MANNURONAN C-5-EPIMERASE  
; NUMBER OF SEQUENCES: 52  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: BIRCH, STEWART, KOLASCH & BIRCH, LLP  
; STREET: P.O. BOX 747  
; CITY: FALLS CHURCH  
; STATE: VA  
; COUNTRY: USA  
; ZIP: 22042

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/387,942C  
; FILING DATE: 09-MAY-1995  
; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:  
; NAME: MURPHY JR, GERALD M.  
; REGISTRATION NUMBER: 28,977  
; REFERENCE/DOCKET NUMBER: 1809-106P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 703-205-8000  
; TELEFAX: 703-205-8050

; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 12588 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)  
; ORIGINAL SOURCE:  
; ORGANISM: Azotobacter vinelandii  
; STRAIN: E

; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 290..1951

; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 2227..6438

; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 6702..9695

; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 9973..12588

## US-08-387-942C-1

Query Match 2.3%; Score 43.4; DB 2; Length 12588;  
Best Local Similarity 49.8%; Pred. No. 0.2; Mismatches 0; Gaps 0;  
Matches 110; Conservative 0; Indels 0; Gaps 0;

QY 1016 CTTCCACACCTGTGACCTGAGGATCGACGAGACTGCTTTCATGGTCTTTCAGAGCAGA 1075  
Db 2523 CTTCCGATGAGCGACCTGACCTCGACGCGCAACCGCAGACCTGTCTCGCCCAAGTCTGA 2582  
QY 1076 CACCTATTACAGCAGCAGATGAATGTACAGAGAAAGCGGGTCTCTGCCAGATCAA 1135  
Db 2583 CGGCTGGTTCAACGGCTACATCCCGGCGCAGGACGCGCGGATCGGAGCTGACCCCTGA 2642  
QY 1136 GAGCAGAAAGTGCAGGACATCCTCGCCTTCTATCTGGCGCGCTGGAGACCAACCA 1195  
Db 2643 CGGGTGAATCCGAGATGTCGGGTACGGTTTCGACCCCGCAGGACGACCATCAA 2702  
QY 1196 GGTGACTGACAGTACTTCGAGACCAAGAACTTCTGGATCG 1236  
Db 2703 CCTGACGATCGGACAGCGTGGCCCGCAGCAACAGCCTCG 2743

## RESULT 5

PCT-US95-03747-1

; Sequence 1, Application PC/TUS9503747  
; GENERAL INFORMATION:  
; APPLICANT: LA JOLLA CANCER RESEARCH FOUNDATION  
; TITLE OF INVENTION: Brevecan, A Gliat Cell Proteoglycan  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Campbell and Flores  
; STREET: 4370 La Jolla Village Drive, Suite 700  
; CITY: San Diego  
; STATE: California  
; COUNTRY: USA  
; ZIP: 92122

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/03747  
; FILING DATE: 27-MAR-1995

; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Imbra, Richard J.  
; REGISTRATION NUMBER: 37,643  
; REFERENCE/DOCKET NUMBER: PP-LJ 1453

; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (619) 535-9001  
; TELEFAX: (619) 535-8949  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3259 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear

; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 112..2848

PCT-US95-03747-1

Query Match 2.3%; Score 42.6; DB 5; Length 3259;  
Best Local Similarity 53.0%; Pred. No. 0.19;  
Matches 115; Conservative 0; Mismatches 99; Indels 3; Gaps 1;

QY 944 GGAGGAGAGTCTGCTGCTGTGACATCGCTACGGGGGAGGCCAGCTGTGCCACCAA 1003  
Db 2106 GGAGGAGGGGTCCGCTGCTGTGTTGCTGCTATGGGGGACCTGTGGCATTTGG 2165  
QY 1004 GGTGCAATTTCCCTTCCACACCTGTGACCTGAGGATCGACGGAGACTGCTTCATGTGTC 1063

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Db 2166 CTCCACTTCTGAGCCCGGTTGGGAC---GCCTCCAGGGTGCTGTCAAGCACTT 2222
Qy 1064 TTCAGAGGCAGACACCTATTACAGAGCCAGGATGAATGTGAGAGAAAGCGGGGTGCT 1123
Db 2223 TTCTGCCGAGGAGCTGGGAGGCGGAGAGACAAGTCCGGATGTACGGCGGCACT 2282
Qy 1124 GGGCAGATCAGAGCCAGCAAAAGTGCAGGACATGCTC 1160
Db 2283 GGCCAGCATCAGCACGCGGAGGAGCAAGGACTTCATC 2319

RESULT 6
US-08-404-665-3
; Sequence 3, Application US/08404665
; Patent No. 5591583
; GENERAL INFORMATION:
; APPLICANT: Reid, Robert A.
; APPLICANT: Ackley, Rhonda L.
; APPLICANT: Hemperly, John J.
; TITLE OF INVENTION: HUMAN RESTRICTIN AND NUCLEIC ACID
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Richard J. Rodrick, Becton Dickinson and
; ADDRESSEE: Company
; STREET: 1 Becton Drive
; CITY: Franklin Lakes
; STATE: NJ
; COUNTRY: US
; ZIP: 07417
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/404,665
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Fugit, Donna R.
; REGISTRATION NUMBER: 32,135
; REFERENCE/DOCKET NUMBER: P-3341
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4724 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; US-08-404-665-3

Query Match 2.2%; Score 40.8; DB 1; Length 4724;
Best Local Similarity 52.3%; Pred. No. 0.63;
Matches 90; Conservative 0; Mismatches 82; Indels 0; Gaps 0;

Qy 827 CTGCCAAGACCATGGAGCTCTCAACATCAGCACCTGCCACTGTCCTCCCTGGCTA 886
Db 987 CTGCAGTGGCCAGCACTTTAGCTTGTGCTGCTGATCTGCAACGAGGCTG 1046
Qy 887 CACGGGCAGATCTGCGGCTGTGACATCGGTACGGGGAGCCCGAGTGTGCC 998
Db 1047 GTTTGGCAAGATTGCTCGAGCCCTACTGCCCGTGGTGTCTCCAGCGGGGGTGTG 1106
Qy 947 GGAGGAGTGTCTGTGCTGTGACATCGGTACGGGGAGCCCGAGTGTGCC 998
Db 1107 TGTGGATGCCAGTGTCTGTGACAGCGAGTACAGCGGGGATGACTGTTC 1158

RESULT 7
US-08-404-671-3
; Sequence 3, Application US/08404671
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; Patent No. 5635360
; GENERAL INFORMATION:
; APPLICANT: Reid, Robert A.
; APPLICANT: Ackley, Rhonda L.
; APPLICANT: Hemperly, John J.
; TITLE OF INVENTION: HUMAN RESTRICTIN AND NUCLEIC ACID
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Richard J. Rodrick, Becton Dickinson and
; ADDRESSEE: Company
; STREET: 1 Becton Drive
; CITY: Franklin Lakes
; STATE: NJ
; COUNTRY: US
; ZIP: 07417
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/404,671
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Fugit, Donna R.
; REGISTRATION NUMBER: 32,135
; REFERENCE/DOCKET NUMBER: P-3341
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4724 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; US-08-404-671-3

Query Match 2.2%; Score 40.8; DB 1; Length 4724;
Best Local Similarity 52.3%; Pred. No. 0.63;
Matches 90; Conservative 0; Mismatches 82; Indels 0; Gaps 0;

Qy 827 CTGCCAAGACCATGGAGCTCTCAACATCAGCACCTGCCACTGTCCTCCCTGGCTA 886
Db 987 CTGCAGTGGCCAGCACTTTAGCTTGTGCTGCTGATCTGCAACGAGGCTG 1046
Qy 887 CACGGGCAGATCTGCGGCTGTGACATCGGTACGGGGAGCCCGAGTGTGCC 946
Db 1047 GTTTGGCAAGATTGCTCGAGCCCTACTGCCCGTGGTGTCTCCAGCGGGGGTGTG 1106
Qy 947 GGAGGAGTGTCTGTGCTGTGACATCGGTACGGGGAGCCCGAGTGTGCC 998
Db 1107 TGTGGATGCCAGTGTCTGTGACAGCGAGTACAGCGGGGATGACTGTTC 1158

RESULT 8
US-08-404-781-3
; Sequence 3, Application US/08404781
; Patent No. 5681931
; GENERAL INFORMATION:
; APPLICANT: Reid, Robert A.
; APPLICANT: Ackley, Rhonda L.
; APPLICANT: Hemperly, John J.
; TITLE OF INVENTION: HUMAN RESTRICTIN AND NUCLEIC ACID
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Richard J. Rodrick, Becton Dickinson and
; ADDRESSEE: Company
; STREET: 1 Becton Drive
; CITY: Franklin Lakes
; STATE: NJ
; COUNTRY: US
```

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; ZIP: 07417
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/404,781
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Fugit, Donna R.
; REGISTRATION NUMBER: 32,135
; REFERENCE/DOCKET NUMBER: P-3341
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4724 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; US-08-404-781-3

Query Match 2.2%; Score 40.8; DB 1; Length 4724;
Best Local Similarity 52.3%; Pred. No. 0.63;
Matches 90; Conservative 0; Mismatches 82; Indels 0; Gaps 0;

QY 827 CTGCAGAACCATGGACGTCTCAACATCAGACCTGCCACTGCCACTGTCCCTCGGCTA 886
Db 987 GTGAGTGGCCAGCGCAACTTTAGCTTTGAGTCTGTGCTGCATCTGCAACGAAGGCTG 1046
QY 887 CACGGGAGATACATGCCAAGTGAGGTGAGCTGCAGTGTGTGCACGGCCGGTTCGGGA 946
Db 1047 GTTTGGCAAGAATTTGCTGGAGCCCTACTGCCCGCTGGTGTCTCCAGCCGGGGGTGG 1106
QY 947 GGAGGAGTGTCTGCTGGCTGTGACATCGGCTACGGGGGAGCCCACTAGTGTCC 998
Db 1107 TGTGATGCCAGTGCATCTGTGACAGGAGTACAGCGGGGATGACTGTTC-1158

RESULT 9
US-08-387-942C-17
; Sequence 17, Application US/08387942C
; Patent No. 5939289
; GENERAL INFORMATION:
; APPLICANT: ERTESVAG, HELGA
; APPLICANT: VALLA, SVEIN
; APPLICANT: SKJAK-BRAEK, GUDMUND
; APPLICANT: LARSEN, BJORN
; TITLE OF INVENTION: DNA COMPOUNDS COMPRISING SEQUENCES
; TITLE OF INVENTION: ENCODING MANNURONAN C-5-EPIMERASE
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BIRCH, STEWART, KOLASCH & BIRCH, LLP
; STREET: P.O. BOX 747
; CITY: FALLS CHURCH
; STATE: VA
; COUNTRY: USA
; ZIP: 22042
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/387,942C
; FILING DATE: 09-MAY-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: MURPHY JR, GERALD M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1809-106P
; TELECOMMUNICATION INFORMATION:
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; TELEPHONE: 703-205-8000
; TELEFAX: 703-205-8050
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1176 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-387-942C-17

Query Match 2.1%; Score 39.4; DB 2; Length 1176;
Best Local Similarity 52.1%; Pred. No. 0.85;
Matches 88; Conservative 0; Mismatches 81; Indels 0; Gaps 0;

QY 1133 CAAGAGCCAGAAAGTGCAGGACATCTCGCTTCTATCTGGCGCGCTGGAGACCACCA 1192
Db 873 CGACAAACGCGCAGCGCGCGCTGCCGAGTCTCTGTCAGTCTCTTCGACGATACCGC 932
QY 1193 CGAGGTGACTGACAGTGCAGTTCGAGACGACGAACTTCTGGATCGGCTCACCTACAAG 1252
Db 933 CGGGGCGTCCGGCACCTACTACAGCACCTGTAACACCCGGATCGAGGCAACACCATC 992
QY 1253 CGCCAAAGGACTCTTCGCTGGGCCACAGGGGAGCACACGACCCCTTCACC 1301
Db 993 CGGCTCGGCCAACTCCACCTACGGCATCCAGGAGCGCAACGACGCGACC 1041

RESULT 10
US-09-103-840A-2/c
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
; US-09-103-840A-2

Query Match 2.1%; Score 39.2; DB 4; Length 4403765;
Best Local Similarity 53.2%; Pred. No. 18;
Matches 83; Conservative 0; Mismatches 73; Indels 0; Gaps 0;

QY 401 CCCGAGCTGCGATCCGCGCTGTGGCGCACCTGTCGAAGTGGCTGGAACATCGACTGCT 460
Db 3994090 CCCGTCACAGCGCGCGCGCTGCGCGCCAGAGAGAGAGCGCGCGCGCAACAGCAC 3994031
QY 461 GCCCGCGGCTTGGCGTCTTTGTTGAAGTGTACAGCTATGTTGACAGGGGCGAGCG 520
Db 3994030 GCGCGCGGCTCGGTCCAAGATGTCGGTGGCTTCTGTGGCGGTGTAGCGGGTTCAC 3993971
QY 521 GTACAGCCACGCGGAGAGAGTGTGCTCGCAACGC 556
Db 3993970 GCACACCGCGCGCGCGCTGTTGGATCGCCAGGC 3993935

RESULT 11
US-08-232-463-14/c
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GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: December 28, 2002, 15:40:17 ; Search time 262.586 Seconds  
(without alignments)  
11372.097 Million cell updates/sec

Title: US-09-944-896-49\_COPY\_123\_1448

Perfect score: 1326

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Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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12: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1991.DAT.\*  
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24: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2002.DAT.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|-------------|
| 1          | 1326  | 100.0       | 1876   | 20 | AAK87260    |
| 2          | 1326  | 100.0       | 1876   | 20 | AAK80053    |
| 3          | 1326  | 100.0       | 1876   | 21 | AAA46918    |
| 4          | 1326  | 100.0       | 1876   | 21 | AAA49561    |
| 5          | 1254  | 94.6        | 1338   | 20 | AAZ23300    |
| 6          | 1254  | 94.6        | 1775   | 22 | AAD12570    |
| 7          | 1254  | 94.6        | 1856   | 20 | AAZ23299    |
| 8          | 1254  | 94.6        | 1856   | 24 | AAD33531    |
| 9          | 1254  | 94.6        | 1923   | 22 | AAF24152    |

|    |        |      |      |    |          |                     |
|----|--------|------|------|----|----------|---------------------|
| 10 | 1246   | 94.0 | 1786 | 22 | AAK94246 | Human full-length   |
| 11 | 1205.6 | 90.9 | 1934 | 23 | AAK91790 | DNA encoding novel  |
| 12 | 889.4  | 67.1 | 1519 | 23 | AAK76344 | DNA encoding novel  |
| 13 | 672.8  | 50.7 | 690  | 21 | AAK70010 | Human ovarian carc  |
| 14 | 672.8  | 50.7 | 690  | 24 | ABN72904 | Ovarian carcinoma   |
| 15 | 657.2  | 49.6 | 906  | 23 | AAK76343 | DNA encoding novel  |
| 16 | 518    | 39.1 | 602  | 23 | AAK81209 | DNA encoding novel  |
| 17 | 496.6  | 37.5 | 855  | 21 | AAZ50926 | Human Protease and  |
| 18 | 362.2  | 27.3 | 512  | 22 | AAK91830 | Human CDNA 5'-end   |
| 19 | 362.2  | 27.3 | 512  | 22 | AAK93233 | Human CDNA clone r  |
| 20 | 332.2  | 25.1 | 517  | 22 | AAH98469 | Human EST-derived   |
| 21 | 234.8  | 17.7 | 792  | 23 | AAK76345 | DNA encoding novel  |
| 22 | 191.2  | 14.4 | 3660 | 23 | AAK88505 | DNA encoding novel  |
| 23 | 191.2  | 14.4 | 3660 | 23 | AAK89242 | DNA encoding novel  |
| 24 | 144.8  | 10.9 | 3660 | 23 | AAK88505 | DNA encoding novel  |
| 25 | 144.8  | 10.9 | 3660 | 23 | AAK89242 | DNA encoding novel  |
| 26 | 137.4  | 10.4 | 480  | 23 | AAK81207 | DNA encoding novel  |
| 27 | 133.2  | 10.0 | 1482 | 23 | AAK81210 | DNA encoding novel  |
| 28 | 129.4  | 9.8  | 168  | 23 | AAK91789 | DNA encoding novel  |
| 29 | 95.8   | 7.2  | 915  | 23 | AAK81206 | DNA encoding novel  |
| 30 | 89.6   | 6.8  | 1239 | 23 | AAK73137 | DNA encoding novel  |
| 31 | 56.8   | 4.3  | 759  | 24 | ABL57727 | Human sbg1002620TI  |
| 32 | 56.8   | 4.3  | 1494 | 24 | ABL57728 | Human sbg1002620TI  |
| 33 | 56.8   | 4.3  | 3483 | 24 | AAH38692 | Human LP095 secret  |
| 34 | 55.2   | 4.2  | 939  | 22 | AAH98687 | Rat EST-derived co  |
| 35 | 55.2   | 4.2  | 1491 | 22 | AAK77686 | Human protease-linh |
| 36 | 55.2   | 4.2  | 1669 | 22 | AAD17765 | Human novel trypsi  |
| 37 | 55.2   | 4.2  | 1690 | 22 | AAH15690 | Human CDNA sequenc  |
| 38 | 55.2   | 4.2  | 1824 | 24 | ABK33563 | CDNA encoding huma  |
| 39 | 55.2   | 4.2  | 2272 | 22 | AAK77687 | Human protease-linh |
| 40 | 55.2   | 4.2  | 3836 | 24 | AAK39682 | Human secreted pro  |
| 41 | 55.2   | 4.2  | 4877 | 22 | AAK60871 | Human cancer agent  |
| 42 | 55.2   | 4.2  | 4877 | 22 | AAK60872 | Human cancer agent  |
| 43 | 55.2   | 4.2  | 4877 | 22 | AAK60883 | Human cancer agent  |
| 44 | 55     | 4.1  | 2403 | 22 | AAD17766 | Human novel trypsi  |
| 45 | 54.6   | 4.1  | 840  | 22 | AAH05058 | Human CDNA clone (  |

## ALIGNMENTS

RESULT 1  
AAK87260  
ID AAK87260 standard; CDNA; 1876 BP.  
XX  
AC AAK87260;  
XX  
DT 27-SEP-1999 (first entry)  
XX  
DE CDNA clone encoding human PRO347, amplified in tumour cells.  
XX  
KW PRO347; UNQ306; cancer; tumour; diagnosis; therapy; human; ss.  
XX  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FT CDS 123..1490  
FT sig\_peptide /\*tag= a  
FT FT 123..200  
FT mat\_peptide /\*tag= b  
FT FT 201..1487  
FT /\*tag= c  
XX  
PN WO9935170-A2.  
XX  
PD 15-JUL-1999.  
XX  
PF 05-JAN-1999; 99WO-US00106.  
XX  
PR 20-NOV-1998; 98US-0109304.  
PR 05-JAN-1998; 98US-0070440.  
PR 29-APR-1998; 98US-0083500.  
PR 22-MAY-1998; 98US-0086414.

PR 10-JUN-1998; 98US-0088742.  
PR 10-NOV-1998; 98US-0107783.  
PA (GETH ) GENENTECH INC.  
PI Botstein D, Goddard A, Gurney AL, Hillan KJ, Lawrence DA;  
PI Roy MA, Wood WI;  
XX WPI: 1999-430385/36.  
DR P-PSDB: AAY06483.  
XX  
PT Antibody against proteins expressed in neoplastic cells, useful for  
PT tumor diagnosis and treatment  
PS Example 1; Fig 13; 162pp; English.  
XX  
CC This is the nucleotide sequence of cDNA clone DNA44176 (ATCC 209532)  
CC coding for human PRO347 (UN0306) (see AAY06482). The clone was  
CC isolated from a foetal kidney library. Amplification of DNA44176  
CC occurs in various tumours, suggesting an association with tumour  
CC formation or growth. Antagonists (e.g. antibodies) directed against  
CC PRO347 may have use in cancer therapy. The invention identifies 14  
CC genes (see AX87254-67) that are amplified in the genome of tumour  
CC cells. Such amplification is expected to be associated with  
CC overexpression of the gene product and to contribute to  
CC tumorigenesis. The encoded proteins (see AAY06477-90) may be useful  
CC targets for the diagnosis and/or treatment (including prevention)  
CC of certain cancers, and may act as predictors of the prognosis of  
CC tumour treatment.  
XX  
SQ Sequence 1876 BP; 387 A; 568 C; 574 G; 347 T; 0 other;  
Query Match 100.0%; Score 1326; DB 20; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 7.8e-299;  
Matches 1326; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 ATGCTGATCCAGAGACCTCCCTGCGGGGGGAGTCTCTCGCTGTGCTGCGCCCTC 60  
Db 123 ATGCTGATCCAGAGACCTCCCTGCGGGGGGAGTCTCTCGCTGTGCTGCGCCCTC 182  
Qy 61 CTGGCACACCTGGGACAGAGTGTGCGCACCCAGCTGCAGGAGCGGCTCCGATGCC 120  
Db 183 CTGGCACACCTGGGACAGAGTGTGCGCACCCAGCTGCAGGAGCGGCTCCGATGCC 242  
Qy 121 GGAGCCCTGAACAGGAAGAGAGTTCCTCTCTCTCCCTGCACACCGGCTCGCGAGC 180  
Db 243 GGAGCCCTGAACAGGAAGAGAGTTCCTCTCTCTCCCTGCACACCGGCTCGCGAGC 302  
Qy 181 TGGGTCAGCCGCCCTGCGGCTGACATGCGGAGGCTGGAGTGGAGTACAGCTGGCCAA 240  
Db 303 TGGGTCAGCCGCCCTGCGGCTGACATGCGGAGGCTGGAGTGGAGTACAGCTGGCCAA 362  
Qy 241 CTGGCTCAAGCCAGGCGACCCCTCTCTGGAAATCCACACCCGAGCTGGCATCGGCTG 300  
Db 363 CTGGCTCAAGCCAGGCGACCCCTCTCTGGAAATCCACACCCGAGCTGGCATCGGCTG 422  
Qy 301 TGGCGCACCTGCAAGTGGGCTGGAACATGCACTGTGCTGCCCGGGGCTTGGCGTCCCTTT 360  
Db 423 TGGCGCACCTGCAAGTGGGCTGGAACATGCACTGTGCTGCCCGGGGCTTGGCGTCCCTTT 482  
Qy 361 GTTGAAGTGGTCAAGCTATGTTTTCAGAGGGGCGAGCGGTACAGCCACGCGGAGGAG 420  
Db 483 GTTGAAGTGGTCAAGCTATGTTTTCAGAGGGGCGAGCGGTACAGCCACGCGGAGGAG 542  
Qy 421 TGTGCTCGCAACGCCACCTGCACCCACTACACAGCTCTGTGGGCGACCTCAAGCCAG 480  
Db 543 TGTGCTCGCAACGCCACCTGCACCCACTACACAGCTCTGTGGGCGACCTCAAGCCAG 602  
Qy 481 CTGGGCTGTGGGCGGACCTGTGCTCTGAGGGCGAGACGCGATAGAGCCTTTGCTGT 540  
Db 603 CTGGGCTGTGGGCGGACCTGTGCTCTGAGGGCGAGACGCGATAGAGCCTTTGCTGT 662  
Qy 541 GCCTACTCCCCGGAGGCACTGGGAGGTCAACGGGAGACAATCATCCCCCTATAAGAAG 600

Db 663 GCCTACTCCCCGGAGGCAACTGGGAGGTCAACGGGAGACAATCATCCCCCTATAAGAAG 722  
Qy 601 GGTGCTGTGTGCTCTGCACAGCCAGTGTCTCAGGCTGCTTCAAGACCTGGGACCAT 660  
Db 723 GGTGCTGTGTGCTCTGCACAGCCAGTGTCTCAGGCTGCTTCAAGACCTGGGACCAT 782  
Qy 661 GCAGGGGGGCTCTGTGAGGTCCCCCAGGAATCCTTTGTCGATGAGTGCAGAACCATGGA 720  
Db 783 GCAGGGGGGCTCTGTGAGGTCCCCCAGGAATCCTTTGTCGATGAGTGCAGAACCATGGA 842  
Qy 721 CGTCTCAACATCAGACCTGCCACTGCTCCCTGCTGCTACACGGGAGATGACTGC 780  
Db 843 CGTCTCAACATCAGACCTGCCACTGCTCCCTGCTGCTACACGGGAGATGACTGC 902  
Qy 781 CRAGTGAGTGCAGCCCTGTCAGTGTGCACGCGCGGTTCCGGGAGGAGGTGCTGCTGC 840  
Db 903 CRAGTGAGTGCAGCCCTGTCAGTGTGTGACGCGCGGTTCCGGGAGGAGGTGCTGCTGC 962  
Qy 841 GTCTGTACATCGGCTACGGGGGAGCCAGTGTGCGCACCAAGGTGCTATTTCCCTTCCAC 900  
Db 963 GTCTGTACATCGGCTACGGGGGAGCCAGTGTGCCACCAAGGTGCTATTTCCCTTCCAC 1022  
Qy 901 ACTGTGACCTGAGGTGCGAGGAGACTGCTTCATGCTGCTTCAGAGGCGACACCTAT 960  
Db 1023 ACTGTGACCTGAGGTGCGAGGAGACTGCTTCATGCTGCTTCAGAGGCGACACCTAT 1082  
Qy 961 TACAGAGCCAGGATGAAATGTCAGAGGAAGGCGGGTGTGCGCCAGATCAAGAGCCAG 1020  
Db 1083 TACAGAGCCAGGATGAAATGTCAGAGGAAGGCGGGTGTGCGCCAGATCAAGAGCCAG 1142  
Qy 1021 AAGTGCAGGACATCCTCGCTTCTATCTGGGCGCGCTGGAGACCAACAGAGGTGACT 1080  
Db 1143 AAGTGCAGGACATCCTCGCTTCTATCTGGGCGCGCTGGAGACCAACAGAGGTGACT 1202  
Qy 1081 GACAGTGAATTCAGAGCCAGGAACTTCTGGATCGGGCTCAGCTACAAGACCCCGCAGGAC 1140  
Db 1203 GACAGTGAATTCAGAGCCAGGAACTTCTGGATCGGGCTCAGCTACAAGACCCCGCAGGAC 1262  
Qy 1141 TCCTTCGCTGGGCGCACAGGGGAGCACAGGCTTTCACAGTTCCTTCGCTTTGGGCGAGCT 1200  
Db 1263 TCCTTCGCTGGGCGCACAGGGGAGCACAGGCTTTCACAGTTCCTTCGCTTTGGGCGAGCT 1322  
Qy 1201 GACAACACCGGCTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1260  
Db 1323 GACAACACCGGCTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1382  
Qy 1261 CAGGCTTCAGCTGCCTTCAACTGGAACGACGAGCTGCAAAACCGGAACCGTTACATC 1320  
Db 1383 CAGGCTTCAGCTGCCTTCAACTGGAACGACGAGCTGCAAAACCGGAACCGTTACATC 1442  
Qy 1321 TGCCAG 1326  
Db 1443 TGCCAG 1448  
RESULT 2  
AX80053  
ID AAX80053 standard; cDNA; 1876 BP.  
XX  
AC AAX80053;  
XX  
DT 12-AUG-1999 (first entry)  
XX  
DE Human PRO347 nucleotide sequence.  
XX  
DE Human; PRO protein; tumour necrosis factor family; TNF; cytokine;  
KW secreted protein; transmembrane protein; inflammation disorder; ss.  
XX  
OS Homo sapiens.  
XX  
PN W0928462-A2.  
XX

PD 10-JUN-1999.  
XX 01-DEC-1998; 98W0-US25108.  
PF 25-FEB-1998; 98US-0075945.  
XX 03-DEC-1997; 97US-0067411.  
PR 11-DEC-1997; 97US-0069278.  
PR 11-DEC-1997; 97US-0069334.  
PR 12-DEC-1997; 97US-0069335.  
PR 12-DEC-1997; 97US-0069425.  
PR 16-DEC-1997; 97US-0069694.  
PR 16-DEC-1997; 97US-0069696.  
PR 16-DEC-1997; 97US-0069702.  
PR 17-DEC-1997; 97US-0069870.  
PR 17-DEC-1997; 97US-0069873.  
PR 18-DEC-1997; 97US-0068017.  
PR 05-JAN-1998; 98US-0070440.  
PR 09-FEB-1998; 98US-0074086.  
PR 09-FEB-1998; 98US-0074092.  
XX  
PA (GETH ) GENENTECH INC.  
XX Baker KP, Chen J, Goddard A, Gurney AL, Wood WL;  
PI Yuan J;  
XX WPI; 1999-371118/31.  
DR P-PSDB; AAY17828.  
XX  
PT Nucleic acids encoding PRO secreted and transmembrane proteins  
XX  
XX Claim 2; Fig 22; 123pp; English.  
XX  
XX The present invention describes nucleic acids encoding PRO secreted and  
CC transmembrane proteins used therapeutically. The PRO proteins have  
CC cytosolic, anti-inflammatory, anti-proliferative and immunosuppressive  
CC activity. The proteins and polynucleotides can be used in therapy,  
CC identification of homologues, raising antibodies and design of probes  
CC and primers. They can be used in a range of diseases related to proteins  
CC that they have homology with, e.g. a PRO protein having homology to  
CC complement proteins may be used in inflammatory responses.  
XX  
XX Sequence 1876 BP; 387 A; 568 C; 574 G; 347 T; 0 other;  
PS  
Query Match 100.0%; Score 1326; DB 20; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 7.8e-299;  
Matches 1326; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ATGCTGATCAGAGACCTCCCTGGCCGGGGGCGATCTCTGGCTGTGCTCTGGCCCTC 60  
DB 123 ATGCTGATCAGAGACCTCCCTGGCCGGGGGCGATCTCTGGCTGTGCTCTGGCCCTC 182  
QY 61 CTGGCACCACTGGGCGAGAGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCC 120  
DB 183 CTGGCACCACTGGGCGAGAGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCC 242  
QY 121 GGAGCCCTGAACAGAGAGAGTGTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 180  
DB 243 GGAGCCCTGAACAGAGAGAGTGTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 302  
QY 181 TGGGTCCAGCCCTGGGCTGACATGCGGAGCTGGAGTGGAGTGCAGGCTGGCCCAA 240  
DB 303 TGGGTCCAGCCCTGGGCTGACATGCGGAGCTGGAGTGGAGTGCAGGCTGGCCCAA 362  
QY 241 CTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCAGGCTGGCATCCGGCCTG 300  
DB 363 CTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCAGGCTGGCATCCGGCCTG 422  
QY 301 TGGCGACCCCTCAAGTGGGCTGGAACATGAGCTGCTGCCCGGGCTTGGCGTCTCTTT 360  
DB 423 TGGCGACCCCTCAAGTGGGCTGGAACATGAGCTGCTGCCCGGGCTTGGCGTCTCTTT 482  
QY 361 GTTGAAGTGGTCAGGCTATGTTTGCAGAGGGGCGAGCGGTACAGCCACCGGCGAGAG 420  
DB  
DB 483 GTTGAAGTGGTCAGGCTATGTTTGCAGAGGGGCGAGCGGTACAGCCACCGGCGAGAG 542  
QY 421 TGTGCTCGCAAGCGCACCTGCACCCACTACACGAGCTCGTGTGGGCCACCTCAAGCCAG 480  
DB 543 TGTGCTCGCAAGCGCACCTGCACCCACTACACGAGCTCGTGTGGGCCACCTCAAGCCAG 502  
QY 481 CTGGGCTGTGGGGCGCACCTGTGCTCTGAGGCCAGAGAGGATAGAGGCTTTGTCTGT 540  
DB 603 CTGGGCTGTGGGGCGCACCTGTGCTCTGAGGCCAGAGAGGATAGAGGCTTTGTCTGT 562  
QY 541 GCCTACTCCCGGAGGAGGAGTGGAGGTCAACGGGAGAGCAATCATCCCCCTATAGAAG 600  
DB 663 GCCTACTCCCGGAGGAGGAGTGGAGGTCAACGGGAGAGCAATCATCCCCCTATAGAAG 722  
QY 601 GGTGCTGGTGTGCTGCTGTCAGAGCCAGTGTCTCAGGCTGCTTCAAGGCTGGGACCAT 660  
DB 723 GGTGCTGGTGTGCTGCTGTCAGAGCCAGTGTCTCAGGCTGCTTCAAGGCTGGGACCAT 782  
QY 661 GCAGGGGGGCTCTGTGAGGTCCCGAGGAATCCTTGTGCGATGAGTGCAGAACCATGGA 720  
DB 783 GCAGGGGGGCTCTGTGAGGTCCCGAGGAATCCTTGTGCGATGAGTGCAGAACCATGGA 842  
QY 721 CGTCTCAACATCAGCACCTGCCACTGCCACTGTCCCCCTGGCTACACGGGCGAGATGTC 780  
DB 843 CGTCTCAACATCAGCACCTGCCACTGCCACTGTCCCCCTGGCTACACGGGCGAGATGTC 902  
QY 781 CAAGTGAAGTGCAGGCTGCAGTGTGTCACGCGCGGTTCGGGGAGGAGAGTGCCTGTC 840  
DB 903 CAAGTGAAGTGCAGGCTGCAGTGTGTCACGCGCGGTTCGGGGAGGAGAGTGCCTGTC 962  
QY 841 GTCTGTGACATCGGCTACGGGGGAGCCAGTGTGCCACCAAGGTGCTTTCCCTTCCAC 900  
DB 963 GTCTGTGACATCGGCTACGGGGGAGCCAGTGTGCCACCAAGGTGCTTTCCCTTCCAC 1022  
QY 901 ACCTGTGACCTGAGATCGAGGAGACTGCTTCATGGTGTCTTCAGAGCGACACCTAT 960  
DB 1023 ACCTGTGACCTGAGATCGAGGAGACTGCTTCATGGTGTCTTCAGAGCGACACCTAT 1082  
QY 961 TACAGAGCCAGGATGAATGTGAGAGAAAGGCGGGGTGCTGGCCCGAGATCAAGAGCCAG 1020  
DB 1083 TACAGAGCCAGGATGAATGTGAGAGAAAGGCGGGGTGCTGGCCCGAGATCAAGAGCCAG 1142  
QY 1021 AAAGTGAAGGATCTCTGCGCTTCTATCTGGGCCCGCTGGAGACCAACAGGAGTGCAT 1080  
DB 1143 AAAGTGAAGGATCTCTGCGCTTCTATCTGGGCCCGCTGGAGACCAACAGGAGTGCAT 1202  
QY 1081 GACAGTGAAGTTCAGAGACCAAGAACTTCTGATCGGGCTCACCTACAAGACCCGCAAGGAC 1140  
DB 1203 GACAGTGAAGTTCAGAGACCAAGAACTTCTGATCGGGCTCACCTACAAGACCCGCAAGGAC 1262  
QY 1141 TCCCTTCGCGTGGGCGCACAGGGGAGCACCAGGCTTTCACAGTTCCTGGCCCTTTGGGAGCCT 1200  
DB 1263 TCCCTTCGCGTGGGCGCACAGGGGAGCACCAGGCTTTCACAGTTCCTGGCCCTTTGGGAGCCT 1322  
QY 1201 GACAAACACGGGCTGGTGGCTGAGTGTGCTGAGTGTGGGCTTTGGCAACTGCGTGGAGCTG 1260  
DB 1323 GACAAACACGGGCTGGTGGCTGAGTGTGCTGAGTGTGGGCTTTGGCAACTGCGTGGAGCTG 1382  
QY 1261 CAGGCTTCAGTGTCTTCAACTGGAACACCAAGCGCTGCACAAACCCGAAACCGTTACATC 1320  
DB 1383 CAGGCTTCAGTGTCTTCAACTGGAACACCAAGCGCTGCACAAACCCGAAACCGTTACATC 1442  
QY 1321 TGCCAG 1326  
DB 1443 TGCCAG 1448  
RESULT 3  
AAA46918  
ID AAA46918 standard; cdna; 1876 BP.  
XX AC AAA46918;  
XX AC

DT 03-OCT-2000 (first entry)  
XX cDNA encoding novel polypeptide PRO347.  
DE  
XX  
KW PRO201; PRO292; PRO327; PRO1265; PRO344; PRO343; PRO347; PRO357;  
KW PRO715; PRO1017; PRO112; PRO509; PRO853; PRO882; tumour cell;  
KW tumorigenesis; cancer; neoplastic cell growth; cell proliferation; ss.  
XX  
OS Homo sapiens.  
XX  
XX  
FH Key Location/Qualifiers  
FT CDS 123..1490  
FT /\*tag= a  
XX  
XX WO200037640-A2.  
XX  
XX 29-JUN-2000.  
XX  
XX 16-DEC-1999; 99WO-US30095.  
XX  
XX 22-DEC-1998; 98US-0113296.  
XX 08-MAR-1999; 99WO-US05028.  
XX 02-JUN-1999; 99WO-US12252.  
XX 01-SEP-1999; 99WO-US20111.  
XX 15-SEP-1999; 99WO-US21090.  
XX 30-NOV-1999; 99WO-US28313.  
XX 30-NOV-1999; 99WO-US28409.  
XX 01-DEC-1999; 99WO-US28301.  
XX 02-DEC-1999; 99WO-US28565.  
XX  
XX (GETH ) GENENTECH INC.  
XX  
XX Botstein D, Goddard A, Gurney AL, Hillan K, Lawrence DA, Roy MA;  
XX Wood WI;  
XX  
XX WPI: 2000-452188/39.  
XX P-PSDB; AAY93690.  
XX  
XX New anti-polypeptide antibody useful in the treatment and diagnosis of  
XX neoplastic cell growth and proliferation -  
XX  
XX Claim 50; Fig 13; 220pp; English.  
XX  
XX The present sequence encodes a novel human polypeptide. The  
XX specification describes novel polypeptides designated PRO201, PRO292,  
XX PRO327, PRO1265, PRO344, PRO343, PRO347, PRO357, PRO715, PRO1017,  
XX PRO1112, PRO509, PRO853 and PRO882. These genes are amplified in  
XX the genome of tumour cells. The polypeptides are believed to contribute  
XX to tumorigenesis. The polypeptides are useful target for the  
XX identification of certain cancers, and may act as predictors of the  
XX prognosis of tumour treatment. Antibodies against these polypeptides  
XX are useful in the treatment and diagnosis of neoplastic cell growth  
XX and proliferation in mammals.  
XX  
XX Sequence 1876 BP; 387 A; 568 C; 574 G; 347 T; 0 other;  
SQ  
  
Query Match 100.0%; Score 1326; DB 21; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 7.8e-299;  
Matches 1326; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 ATGCTGCATCCAGACCTCCCTGGCCGGGGCATCTCCTGGCTGTGCTCGGCCCTC 60  
DB 123 ATGCTGCATCCAGACCTCCCTGGCCGGGGCATCTCCTGGCTGTGCTCGGCCCTC 182  
QY 61 CTGGCACACCTGGGAGAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCC 120  
DB 183 CTGGCACACCTGGGAGAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCC 242  
QY 121 GGAGCCCTGAACAGGAAGAGAGTTTCTTGGCTCCTCCTCGCACAAACCGCTCGGAGC 180  
DB 243 GGAGCCCTGAACAGGAAGAGAGTTTCTTGGCTCCTCCTCGCACAAACCGCTCGGAGC 302  
QY 181 TGGGTCACGCCCTCGCTGCATGCATGCGGAGGCTGGAGTGACAGCAGCTGGCCAA 240

Db 303 TGGTCCAGCCCCCTGCGGCTGACATGGGAGGCTGGAGTGACAGCCTGGCCCCAA 362  
QY 241 CTGGCTCAAGCCAGGAGCCCTCTGTGTAATCCCAACCCGAGCCTGGCATCCGGCCCTG 300  
Db 363 CTGGCTCAAGCCAGGAGCCCTCTGTGTAATCCCAACCCGAGCCTGGCATCCGGCCCTG 422  
QY 301 TGGCGCACCCCTGCAAGTGGGCTGGAACATGCAGCTGCTGCCCGCGGCTTGGCGTCTTT 360  
Db 423 TGGCGCACCCCTGCAAGTGGGCTGGAACATGCAGCTGCTGCCCGCGGCTTGGCGTCTTT 482  
QY 361 GTTGAAGTGGTCAGCCTATGTTTGCAGAGGGGAGCGGTACAGCCACCGCGGAGAGAG 420  
Db 483 GTTGAAGTGGTCAGCCTATGTTTGCAGAGGGGAGCGGTACAGCCACCGCGGAGAGAG 542  
QY 421 TGTCTCGCAACGCCACCTGCACCCACTACAGCGAGCTGCTGTGGGCCACCTCAAGCCAG 480  
Db 543 TGTCTCGCAACGCCACCTGCACCCACTACAGCGAGCTGCTGTGGGCCACCTCAAGCCAG 602  
QY 481 CTGGGCTGTGGGCGGCACCTGTGCTCTGCAGGCCAGACAGCGATAGAAGCCTTTGCTGT 540  
Db 603 CTGGGCTGTGGGCGGCACCTGTGCTCTGCAGGCCAGACAGCGATAGAAGCCTTTGCTGT 662  
QY 541 GCCTACTCCCCCGGAGGCAACTGGGAGGTCAACGGGAGAGCAATATCCCTTATAGAAG 600  
Db 663 GCCTACTCCCCCGGAGGCAACTGGGAGGTCAACGGGAGAGCAATATCCCTTATAGAAG 722  
QY 601 GGTGCTGTGTTGCTCTGCACAGCCAGTGTCTCAGGCTGCTTCAAAGCCTTGGGACCAT 660  
Db 723 GGTGCTGTGTTGCTCTGCACAGCCAGTGTCTCAGGCTGCTTCAAAGCCTTGGGACCAT 782  
QY 661 GCAGGGGGGCTCTGTGAGTCCCCAGGAATCCTTGTGCATGAGTGCAGAACCACTGA 720  
Db 783 GCAGGGGGGCTCTGTGAGTCCCCAGGAATCCTTGTGCATGAGTGCAGAACCACTGA 842  
QY 721 CGTCTCAACATCAGCACCTGCCACTGCCACTGTCCCTCTGGCTACACGGGCGAGTACTGC 780  
Db 843 CGTCTCAACATCAGCACCTGCCACTGCCACTGTCCCTCTGGCTACACGGGCGAGTACTGC 902  
QY 781 CAAGTGAGTGCAGCCTGCAGTGTGTGCACGGCCGGTTCGGGGAGGAGGAGTGTCTGTC 840  
Db 903 CAAGTGAGTGCAGCCTGCAGTGTGTGCACGGCCGGTTCGGGGAGGAGGAGTGTCTGTC 962  
QY 841 GTCTGTGACATCGGCTACGGGGAGCCAGTGTGCACCAAGAGTGCATTTTCCCTTCCAC 900  
Db 963 GTCTGTGACATCGGCTACGGGGAGCCAGTGTGCACCAAGAGTGCATTTTCCCTTCCAC 1022  
QY 901 ACCTGTGACCTGAGGATCGACGGAGACTGCTTCATGGTGTCTTCAGAGCGACACCTAT 960  
Db 1023 ACCTGTGACCTGAGGATCGACGGAGACTGCTTCATGGTGTCTTCAGAGCGACACCTAT 1082  
QY 961 TACAGAGCCAGGATGAATGTACAGAGAAAGCGGGGTGCTGGCCCGACAGATCAAGAGCCAG 1020  
Db 1083 TACAGAGCCAGGATGAATGTACAGAGAAAGCGGGGTGCTGGCCCGACAGATCAAGAGCCAG 1142  
QY 1021 AAAGTGAGGACATCTCCTCGCTTCTATCTGGGCGCGCTGGAGACCAACAGAGGTGACT 1080  
Db 1143 AAAGTGAGGACATCTCCTCGCTTCTATCTGGGCGCGCTGGAGACCAACAGAGGTGACT 1202  
QY 1081 GACAGTGACTTCGAGACCAAGGAACCTCTGGATCGGCTCACCTACAAGACCGCCAGGAG 1140  
Db 1203 GACAGTGACTTCGAGACCAAGGAACCTCTGGATCGGCTCACCTACAAGACCGCCAGGAG 1262  
QY 1141 TCCCTTCGCTGGGCGCACAGGGAGCACAGGCTTTCACAGTTCCTTTCCTTTGGGCGAGCCT 1200  
Db 1263 TCCCTTCGCTGGGCGCACAGGGAGCACAGGCTTTCACAGTTCCTTTCCTTTGGGCGAGCCT 1322  
QY 1201 GACAACACAGGGCTGTGTGCTGAGTGTGCTGAGTGGGTGTGGCACTGTGGCTGGAGCTG 1260  
Db 1323 GACAACACAGGGCTGTGTGCTGAGTGTGCTGAGTGGGTGTGGCACTGTGGCTGGAGCTG 1382  
QY 1261 CAGGCTTCAGTGTGCTTCAACTGGAAACACAGCGCTGCAAAACCGGAAACCGGTTACATC 1320

Db 1383 CAGGCTTCAGCTGCTTCAACTGGAACACACGAGCGCTGCAAAACCCGAAACCGTTTACATC 1442

QY 1321 TGCCAG 1326

Db 1443 TGCCAG 1448

## RESULT 4

AAA49561

ID AAA49561 standard; cDNA; 1876 BP.

XX AC AAA49561;

XX 25-SEP-2000 (first entry)

XX DE Human PRO347 cDNA.

XX KW PRO; membrane bound protein; secreted protein; PRO357; PRO327;

XX KW PRO243; PRO715; PRO323; PRO299; PRO344; PRO347;

XX KW PRO355; PRO353; PRO361; PRO365; transmembrane polypeptide;

XX KW antibody; screening; detection; inhibition; probe; primer; human;

XX KW ss.

XX OS Homo sapiens.

XX FH Key

XX FT CDS

XX FT Location/Qualifiers

XX FT 123..1490

XX FT /\*tag= a

XX FT /product= PRO347 polypeptide

XX FT

XX PN WO200032776-A2.

XX PD 08-JUN-2000.

XX PF 01-DEC-1999; 99WO-US28301.

XX PR 01-DEC-1998; 98WO-US25108.

XX PR 16-DEC-1998; 98US-0112850.

XX PR 22-DEC-1998; 98US-0113296.

XX PA (GETH ) GENENTECH INC.

XX PI Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;

XX PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL;

XX PI Hillan KJ, Kijavini IJ, Napier MA, Roy MA, Tumas D, Wood WI;

XX WPI: 2000-412324/35.

XX P-PSDB; AAB01319.

XX PT New human nucleic acids encoding secreted and transmembrane

XX PT polypeptides, designated as PRO polypeptides, useful as pharmaceutical

XX PT and diagnostic agents

XX PS Claim 2; Fig 19; 187pp; English.

XX CC New human nucleic acids encoding secreted and transmembrane

XX CC polypeptides which are designated as PRO polypeptides are described

XX CC The membrane-bound proteins have various industrial applications,

XX CC including as pharmaceutical and diagnostic agents. The membrane-bound

XX CC proteins can also be employed for screening of potential peptide or

XX CC small molecule inhibitors of the relevant receptor/ligand interaction.

XX CC Anti-PRO antibodies are useful for the affinity purification of PRO

XX CC from recombinant cell culture or natural sources.

XX SQ Sequence 1876 BP; 387 A; 568 C; 574 G; 347 T; 0 other;

XX Query Match

XX Best Local Similarity 100.0%; Score 1326; DB 21; Length 1876;

XX Matches 1326; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGCTGCATCCAGACACCTCCCTGGCGGGGCGATCTCTCTGGCTGTCTCTGGCCCTC

Db 123 ATGCTGCATCCAGACACCTCCCTGGCGGGGCGATCTCTCTGGCTGTCTCTGGCCCTC

Qy 1141 TCCTTCCGTCGGCCACAGGGGAGACACAGGCTTCACAGATTTTCCCTTTGGGCGAGCCT 1200  
Db 1263 TCCTTCCGTCGGCCACAGGGGAGACACAGGCTTCACAGATTTTCCCTTTGGGCGAGCCT 1322  
Qy 1201 GACACACAGGGCTGTGGCTGAGTGTGCTGCATGGGCTTTGGCAACTGCGTGGAGCTG 1260  
Db 1323 GACACACAGGGCTGTGGCTGAGTGTGCTGCATGGGCTTTGGCAACTGCGTGGAGCTG 1382  
Qy 1261 CAGGCTTCAGCTGCTTCAACTTGGACACAGGCTGCAAAACCCGAAACCCGTTTACATC 1320  
Db 1393 CAGGCTTCAGCTGCTTCAACTTGGACACAGGCTGCAAAACCCGAAACCCGTTTACATC 1442  
Qy 1321 TGCCAG 1326  
Db 1443 TGCCAG 1448

## RESULT 5

ID AA223300 standard; cDNA; 1338 BP.

XX AA223300;

XX 31-JAN-2000 (first entry)

XX Human T139 protein coding sequence.

XX Human: T139 polypeptide; immune system disorder; spermatogenesis; ss;  
KW sperm-egg fusion; testicular disorder; testicular cancer; gene mapping.  
XX Homo sapiens.

XX WO954343-A2.

XX 28-OCT-1999.

XX 23-APR-1999; 99WO-US08896.

XX 23-APR-1998; 98US-0065661.

XX (MILL-) MILLENNIUM BIOTHERAPEUTICS INC.

XX Holtzman D;

XX WPI; 1999-633969/54.

XX P-PSDB; AAY41266.

XX Human T139 nucleic acids and polypeptides, useful for treating  
PT proliferative disorders associated with aberrant T139 expression or  
PT activity -

XX Claim 2; Page 114; 115pp; English.

XX This represents the coding sequence of the human T139 polypeptide. The  
CC T139 polypeptide can be expressed by standard recombinant methodology.  
CC The T139 cDNA insert is deposited with ATCC under accession number  
CC 98694. The T139 polypeptides and polynucleotides can be administered  
CC therapeutically or prophylactically to treat/prevent disorders associated  
CC with aberrant T139 expression or activity, especially proliferative or  
CC differentiative disorders, e.g. of the immune system. They can be used to  
CC modulate spermatogenesis, e.g. as a contraceptive to decrease  
CC spermatogenesis or to treat disorders related to defects in sperm-egg  
CC fusion. They may also be useful to treat testicular disorders e.g.  
CC testicular cancer. The polypeptides may be used to identify selectively  
CC binding compounds which may be useful for detecting the polypeptides in  
CC samples; and identifying compounds modulating polypeptide activity. The  
CC polynucleotides are useful for producing probes or primers that  
CC selectively hybridize to the polynucleotides which may be useful for  
CC detecting the polynucleotides in a sample, gene mapping; identifying  
CC cells or tissues expressing aberrant T139 levels; determining if a gene  
CC has been mutated or deleted to identify subjects at risk for or having a  
CC disorder associated with T139 expression or activity and to monitor  
CC therapeutic interventions; and for producing antisense sequences for

CC therapeutic administration to modulate/prevent T139 expression.

XX

SQ Sequence 1338 BP; 259 A; 420 C; 413 G; 246 T; 0 other;

Query Match 94.6%; Score 1254; DB 20; Length 1338;

Best Local Similarity 97.6%; Pred. No. 4e-282;

Matches 1294; Conservative 0; Mismatches 5; Indels 27; Gaps 1;

Qy 1 ATGCTGCATCCAGAGACCTCCCTGGCCGGGGGACATCTCTGGCTGTGCTCTGGCCCTC 60

Db 1 ATGCTGCATCCAGAGACCTCCCTGGCCGGGGGACATCTCTGGCTGTGCTCTGGCCCTC 60

Qy 61 CTTGGCACCACTGGGCGAGAGGTGTGGCCACCCAGCTGCGAGGAGAGGCTCCGATGGCC 120

Db 61 CTTGGCACCGCTGGGCGAGAGGTGTGGCCACCCAGCTGCGAGGAGAGGCTCCGATGGCC 120

Qy 121 GGAGCCCTGAACAGAGAGAGTTCCTTGTCTCTCCCTGCACAAACCCCTGCCGACG 180

Db 121 GGAGCCCTGAACAGAGAGAGTTCCTTGTCTCTCCCTGCACAAACCCCTGCCGACG 180

Qy 181 TGGGTCCAGCCCCCTTGGCGCTCACATGCGAGGCTGGACTGGAGTGACAGCCTGGCCCCAA 240

Db 181 TGGGTCCAGCCCCCTTGGCGCTCACATGCGAGGCTGGACTGGAGTGACAGCCTGGCCCCAA 240

Qy 241 CTGGCTCAAGCCAGGCGAGCCCTCTGTGGATCCCAACCCCGAGCCTGGCATCCGGCCTG 300

Db 241 CTGGCTCAAGCCAGGCGAGCCCTCTGTGGATCCCAACCCCGAGCCTGGCATCCGGCCTG 300

Qy 301 TGGCGCACCCCTGCAAGTGGCTGGAACATGCAAGCTGTCCCGCGGGCTTGGCGTCTTT 360

Db 301 TGGCGCACCCCTGCAAGTGGCTGGAACATGCAAGCTGTCCCGCGGGCTTGGCGTCTTT 360

Qy 361 GTTGAAGTGTGTCAGCCTATGTTTTCAGAGGGGCGAGCGGTACAGCCACCGCGAGAGAG 420

Db 361 GTTGAAGTGTGTCAGCCTATGTTTTCAGAGGGGCGAGCGGTACAGCCACCGCGAGAGAG 420

Qy 421 TGTGCTGCGAACGCCACCTGCACCCACTACAGCGAGCTGTGGGCCACCTCAAGCCAG 480

Db 421 TGTGCTGCGAACGCCACCTGCACCCACTACAGCGAGCTGTGGGCCACCTCAAGCCAG 480

Qy 481 CTGGGCTGTGGCGGCACTGTGCTCTGCAGGCCAGACAGCATAGAAGCCTTTGTCTGT 540

Db 481 CTGGGCTGTGGCGGCACTGTGCTCTGCAGGCCAGACAGCATAGAAGCCTTTGTCTGT 540

Qy 541 GCCTACTCCCCCGGAGCAACTGGGAGGTCAACGGGAAGACAATCATCCCCATATAAGAG 600

Db 541 GCCTACTCCCCCGGAGCAACTGGGAGGTCAACGGGAAGACAATCATCCCCATATAAGAG 600

Qy 601 GGTGCTGGTGTTCGCTCTGCACAGCCAGTGTCTCAGGCTGCTTCAAGCCCTGGGACCAT 660

Db 601 GGTGCTGGTGTTCGCTCTGCACAGCCAGTGTCTCAGGCTGCTTCAAGCCCTGGGACCAT 660

Qy 661 GCAGGGGGCTCTGTGAGTCCCCAGGAATCCTTGTGCGATGAGCTGCCAGAACCATGGA 720

Db 661 GCAGGGGGCTCTGTGAGTCCCCAGGAATCCTTGTGCGATGAGCTGCCAGAACCATGGA 720

Qy 721 CGTCTCAACATCAGCACTGCCACTGTCCCACTGTCCCTTGGCTACACGGGAGATGCTGC 780

Db 721 CGTCTCAACATCAGCACTGCCACTGTCCCACTGTCCCTTGGCTACACGGGAGATGCTGC 780

Qy 781 CAAGTGAGTGCAGCTCAGTGTGTGCACGGCCGGTTCGGGAGGAGGAGTGTCTGCTGC 840

Db 781 CAAGTGAGTGCAGCTCAGTGTGTGCACGGCCGGTTCGGGAGGAGGAGTGTCTGCTGC 840

Qy 841 GTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCACCAAGTGCATTTTCCCTTCCAC 900

Db 841 GTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCACCAAGTGCATTTTCCCTTCCAC 900

Qy 901 ACCTGTGACCTGAGGATCGAGGAGACTGCTTCATGGTGTCTTCAGAGGCGAGACCTAT 960

Db 901 ACCTGTGACCTGAGGATCGAGGAGACTGCTTCATGGTGTCTTCAGAGGCGAGACCTAT 960

Qy 961 TACAGAGCCAGGATGAATGTTCAGAGGAAAGCGGGGTGCTGCCCCAGATCAAGAGCCAG 1020



Db 961 TACAGAGCCAGGATGAATGTGAGAGAAAGCGGGGTGCTGGCCCGAGATCAAGAGCCAG 1020  
Qy 1021 AAAGTCAGGACATCTCGCCCTTATCTCTGGGCGGCTGGAGACCACCAACGAGGTGACT 1080  
Db 1021 AAAGTCAGGACATCTCGCCCTTATCTCTGGGCGGCTGGAGACCACCAACGAGGTGATT 1080  
Qy 1081 GACATGACTTCGAGACCAGGAACCTTCTGGATCGGCTCACCTACAGAGCCGCAAGGAC 1140  
Db 1081 GACATGACTTCGAGACCAGGAACCTTCTGGATCGGCTCACCTACAGAGCCGCAAGGAC 1140  
Qy 1141 TCCTCCGCTGGCCACAGGAGCAGCAGGCTTACACAGTTTTCGCTTGGGCGAGCCT 1200  
Db 1141 TCCTCCGCTGGCCACAGGAGCAGCAGGCTTACACAGTTTTCGCTTGGGCGAGCCT 1200  
Qy 1201 GACAAACACGGGCTGGTGGCTGAGTGTGCTGCTGCACTGGGCTTGGCAACTGCGTGGAGCTG 1260  
Db 1201 GACAAACAC-----GGGTTGGCAACTGCGTGGAGCTG 1260  
Qy 1261 CAGGCTTCAGTGCCTTCAACTGGACAGCAGCGCTGCAAAACCCGAAACCGTTTACATC 1320  
Db 1234 CAGGCTTCAGTGCCTTCAACTGGACAGCAGCGCTGCAAAACCCGAAACCGTTTACATC 1293  
Qy 1321 TGCCAG 1326  
Db 1294 TGCCAG 1299

RESULT 6  
AADI2570  
ID AADI2570 standard; cDNA; 1775 BP.  
XX  
AC AADI2570;  
XX  
DT 25-SEP-2001 (first entry)  
XX  
DE Human protein having hydrophobic domain encoding cDNA clone HP10760.  
KW Human; hydrophobic domain; gene therapy; nutritional supplement;  
KW cell proliferation; immunomodulatory; autoimmune disorder; antimicrobial;  
KW multiple sclerosis; rheumatoid arthritis; insulin-dependent diabetes;  
KW haematopoiesis; tissue growth activity; Parkinson's disease; cytostatic;  
KW Huntington's disease; Alzheimer's disease; chemotactic; chemokinetic;  
KW haemostatic; thrombolytic; tumour growth inhibitor; anabolic;  
KW contraceptive; antiinfertility; antiinflammatory; ss.  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FT CDS 62..1402  
FT FT /\*tag= a  
FT FT /product= "Human protein having hydrophobic domain"  
FT FT /note= "CDS is specifically claimed in claim 3"  
FT FT 62..142  
FT FT /\*tag= b  
FT FT 143..1399  
FT FT /\*tag= c  
FT FT /product= "Mature human protein with hydrophobic domain"  
XX  
PN WO200149728-A2.  
XX  
PD 12-JUL-2001.  
XX  
PF 28-DEC-2000; 2000WO-JP09359.  
XX  
PR 06-JAN-2000; 2000JP-0000585.  
PR 06-JAN-2000; 2000JP-0000588.  
PR 11-JAN-2000; 2000JP-0002299.  
PR 03-FEB-2000; 2000JP-0026862.  
PR 03-MAR-2000; 2000JP-0058367.  
XX  
PA (PROT-) PROTEGENE INC.  
PA (SAGA ) SAGAMI CHEM RES CENT.

XX Kato S, Kimura T;  
XX  
XX WPI: 2001-418355/44.  
XX P-PSDB; AAE06575.  
XX  
XX Human proteins with hydrophobic domains and the nucleic acids encoding  
XX them, useful for preventing diagnosing and treating e.g. cancer,  
XX Alzheimer's and inflammation -  
XX  
XX Claim 4; Page 271-275; 563pp; English.  
XX  
XX The present sequence is human protein with hydrophobic domain encoding  
XX cDNA clone HP10760. The polynucleotide and polypeptide of the invention  
XX may be used in the prevention, diagnosis and treatment of diseases  
XX associated with inappropriate polypeptide expression. The polynucleotides  
XX may be used to produce the polypeptide, by inserting the nucleic acids  
XX into a host cell and culturing the cell to express the protein. The  
XX polynucleotides and its complementary sequences may also be used as DNA  
XX probes in diagnostic assays and also used in gene therapy. The  
XX polypeptides may also be used as antigens in the production of antibodies  
XX and in assays to identify modulators of polypeptide expression and  
XX activity. The polypeptides and nucleic acids may be used as nutritional  
XX supplements, to modulate cytokine and cell proliferation activity, to  
XX modulate immune stimulation or suppression (e.g. for the treatment of  
XX microbial infections and autoimmune disorders such as multiple sclerosis,  
XX rheumatoid arthritis and insulin-dependent diabetes), to modulate  
XX haematopoiesis, to modulate tissue growth activity (e.g. for the  
XX treatment of Parkinson's disease, Huntington's disease and Alzheimer's  
XX disease), to modulate activin and inhibin activity (e.g. for controlling  
XX fertility), to modulate chemotactic and chemokinetic activity, to  
XX modulate haemostatic and thrombolytic activity, to modulate receptor  
XX ligand activity, to modulate inflammation and to inhibit tumour growth.  
XX  
XX Sequence 1775 BP; 360 A; 541 C; 549 G; 325 T; 0 other;  
SQ

Query Match 94.6%; Score 1254; DB 22; Length 1775;  
Best Local Similarity 97.6%; Pred. No. 4.3e-282;  
Matches 1294; Conservative 0; Mismatches 5; Indels 27; Gaps 1;  
Qy 1 ATGCTGATTCAGAGACCTCCCTGGCGGGGGCATCTCTGCTGTGCTCTGCTGCTC 60  
Db 62 ATGCTGATTCAGAGACCTCCCTGGCGGGGGCATCTCTGCTGTGCTCTGCTGCTC 121  
Qy 61 CTTCGACACCTGCGGAGAGGTGTGGCCACCCAGCTGCAGGAGCAGCTCGGATGGCC 120  
Db 122 CTTCGACACCTGCGGAGAGGTGTGGCCACCCAGCTGCAGGAGCAGCTCGGATGGCC 181  
Qy 121 GGAGCCCTGAACAGAGAGAGAGTTCCTTGTCTCTCTCCCTGCACAAACCGCTCGCAGC 180  
Db 182 GGAGCCCTGAACAGAGAGAGTTCCTTGTCTCTCTCCCTGCACAAACCGCTCGCAGC 241  
Qy 181 TGGTTCAGCCCTTCGGCTGACATGCGGAGGCTGGAGTGGAGTGCAGAGCTGGCCCAA 240  
Db 242 TGGTTCAGCCCTTCGGCTGACATGCGGAGGCTGGAGTGGAGTGCAGAGCTGGCCCAA 301  
Qy 241 CTGCTCAAGCAGGAGCCCTCTGTGGAATCCCAACCCAGGCTGCATCCCGGCTG 300  
Db 302 CTGCTCAAGCAGGAGCCCTCTGTGGAATCCCAACCCAGGCTGCATCCCGGCTG 361  
Qy 301 TGGCGCACCTTGAAGTGGGCTGGAACATGCAGCTGCTGCCCGGGGCTTGGCGCTCTT 360  
Db 362 TGGCGCACCTTGAAGTGGGCTGGAACATGCAGCTGCTGCCCGGGGCTTGGCGCTCTT 421  
Qy 361 GTTGAAGTGTGACCTATGTTTGCAGAGGCGAGCGGTACAGCCACCGGAGAGAG 420  
Db 422 GTTGAAGTGTGACCTATGTTTGCAGAGGCGAGCGGTACAGCCACCGGAGAGAG 481  
Qy 421 TGTCTCGCAACGCCACCTGACCCACCTACAGGAGCTGCTTGGGCCACCTCAAGCCAG 480  
Db 482 TGTCTCGCAACGCCACCTGACCCACCTACAGGAGCTGCTTGGGCCACCTCAAGCCAG 541  
Qy 481 CTGGGCTGTGGGCGGCACTGTGCTCTGAGGCCAGACAGCGATAGAGCCCTTTGTCTCT 540

[illegible]

|     |   |
|-----|---|
| OS  | Homo sapiens.   |
| XX  |   |
| XX  |   |
| FH  | Key Location/Qualifiers   |
| FT  | 95..1435  |
| CDS | /*tag= a  |
| FT  | /product= "Tl39 protein"  |
| FT  |   |
| XX  |   |
| PN  | W09954343-A2.   |
| XX  |   |
| PD  | 28-OCT-1999.  |
| XX  |   |
| PX  | 23-APR-1999; 99WO-US08896.  |
| PF  |   |
| PP  |   |
| XX  |   |
| PR  | 23-APR-1998; 98US-0065661.  |
| XX  | (MILL-) MILLENNIUM BIOTHERAPEUTICS INC.                                   |
| PA  | Holtzman D;   |
| PI  |   |
| XX  |   |
| DR  | WPI; 1999-633969/54.  |
| DR  | P-PSDB; AAY41266.   |
| XX  |   |
| PT  | Human Tl39 nucleic acids and polypeptides, useful for treating            |
| PT  | proliferative disorders associated with aberrant Tl39 expression or       |
| PT  | activity -  |
| XX  |   |
| PS  | Claim 2; Fig 1; 115pp; English.   |
| XX  |   |
| CC  | This cDNA encodes a human Tl39 polypeptide. The Tl39 polypeptide can be   |
| CC  | expressed by standard recombinant methodology. The Tl39 cDNA insert is    |
| CC  | deposited with ATCC under accession number 98694. The Tl39 polypeptides   |
| CC  | and polynucleotides can be administered therapeutically or                |
| CC  | prophylactically to treat/prevent disorders associated with aberrant Tl39 |
| CC  | expression or activity, especially proliferative or differentiative       |
| CC  | disorders, e.g. of the immune system. They can be used to modulate        |
| CC  | spermatogenesis, e.g. as a contraceptive to decrease spermatogenesis or   |
| CC  | to treat disorders related to defects in sperm-egg fusion. They may also  |
| CC  | be useful to treat testicular disorders e.g. testicular cancer. The       |
| CC  | polypeptides may be used to identify selectively binding compounds which  |
| CC  | may be useful for detecting the polypeptides in samples; and identifying  |
| CC  | compounds modulating polypeptide activity. The polynucleotides are useful |
| CC  | for producing probes or primers that selectively hybridize to the         |
| CC  | polynucleotides which may be useful for detecting the polynucleotides in  |
| CC  | a sample, gene mapping; identifying cells or tissues expressing aberrant  |
| CC  | Tl39 levels; determining if a gene has been mutated or deleted to         |
| CC  | identify subjects at risk for or having a disorder associated with Tl39   |
| CC  | expression or activity and to monitor therapeutic interventions; and for  |
| CC  | producing antisense sequences for therapeutic administration to modulate  |
| CC  | /prevent Tl39 expression.   |
| XX  |   |
| SQ  | Sequence 1856 BP; 402 A; 560 C; 564 G; 330 T; 0 other;                    |
|     |   |
|     | Query Match 94.6%; Score 1254; DB 20; Length 1856;                        |
|     | Best Local Similarity 97.6%; Pred. No. 4.4e-282;                          |
|     | Matches 1294; Conservative 0; Mismatches 5; Indels 27; Gaps 1;            |
| Oy  | 1 ATGTCGCATCCAGAGACCTCCCCGGCGGGGGGCAATCCTCGTGCTGTCTCTCGGCCCTC 60          |
| Db  | 95 ATGTCGCATCCAGAGACCTCCCCGGCGGGGGGCAATCCTCGTGCTGTCTCTCGGCCCTC 154        |
| Oy  | 61 CTGTGCACCACCTGGGCAGAGGTTGTGGCCACCCAGCTGCAGAGCAGGCTCCGATGGCC 120        |
| Db  | 155 CTGTGCACCACCTGGGCAGAGGTTGTGGCCACCCAGCTGCAGAGCAGGCTCCGATGGCC 214       |
| Oy  | 121 GGAGCCCTGAACAGAGGAGGATTCTTGTCTCTCTCCCTGCACAACCGCTTCGCGCAGC 180        |
| Db  | 215 GGAGCCCTGAACAGGAGGAGGTTCTTGTCTCTCTCCCTGCACAACCGCTTCGCGCAGC 274        |
| Oy  | 181 TGGGTCCAGCCCCTCGCGCTGACATCGGAGGCTGGACTGGAGTCACAGCCTGGCCCCAA 240       |
| Db  | 275 TGGGTCCAGCCCCTCGCGCTGACATCGGAGGCTGGACTGGAGTCACAGCCTGGCCCCAA 334       |
| Oy  | 241 CTGGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCAGCCTGGCATCCGGCCTG 300       |





XX WO200075375-A1.  
 PN 14-DEC-2000.  
 XX PF 02-JUN-2000; 2000WO-US15187.  
 XX PR 07-JUN-1999; 99US-0137725.  
 XX PA (HUMA-) HUMAN GENOME SCI INC.  
 XX Ruben SM, Birse CE, Duan RD, Soppet DR, Rosen CA, Shi Y;  
 PI Lafleur DW, Olsen HS, Ebner R, Florence KA, Ni J, Young PE;  
 XX WPI; 2001-061741/07.  
 DR Nucleic acids encoding 26 human secreted polypeptides, useful e.g. for  
 PT preventing, diagnosing and/or treating cancers and for promoting wound  
 PT healing.  
 XX PS Claim 1; Page 416-417; 530pp; English.  
 XX The present invention relates to 26 secreted human proteins. The  
 CC proteins may be used in the prevention, diagnosis and treatment of  
 CC diseases associated with inappropriate polypeptide expression.  
 CC For example, they may be used in gene therapy or in vaccines.  
 CC Typical of diseases which are potentially treatable are cancers  
 CC (including leukemia), autoimmune diseases, allergies, inflammation,  
 CC graft rejection, hyperproliferation, cardiovascular diseases  
 CC (particularly critical limb ischemia and coronary disease) and any  
 CC involving abnormal angiogenesis, neurodegeneration and/or  
 CC infectious diseases.  
 XX SQ Sequence 1923 BP; 444 A; 568 C; 569 G; 342 T; 0 other:  
 Query Match 94.6%; Score 1254; DB 22; Length 1923;  
 Best Local Similarity 97.6%; Pred. No. 4.4e-282;  
 Matches 1294; Conservative 0; Mismatches 5; Indels 27; Gaps 1;  
 QY 1 ATGCTGATCAGAGACCTCCCTGGCGGGGGGATCTCTGGCTGTGCTCTGGCCCTC 60  
 DB 140 ATGCTGATCAGAGACCTCCCTGGCGGGGGGATCTCTGGCTGTGCTCTGGCCCTC 199  
 QY 61 CTTGGCACCTGGGAGAGTGGCCACCCAGCTGAGGAGAGAGCTCCGATGGCC 120  
 DB 200 CTTGGCACCTGGGAGAGTGGCCACCCAGCTGAGGAGAGAGCTCCGATGGCC 259  
 QY 121 GGAGCCCTGAACAGGAGAGTCTTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCT 180  
 DB 260 GGAGCCCTGAACAGGAGAGTCTTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCT 319  
 QY 181 TGGGTCCAGCCCTGGCGGTGACATGGGAGGCTGGAGTGGAGTGGAGTGGAGTGGAG 240  
 DB 320 TGGGTCCAGCCCTGGCGGTGACATGGGAGGCTGGAGTGGAGTGGAGTGGAGTGGAG 379  
 QY 241 CTGGCTCAAGCAGGAGAGCTCTGTGGAATCCCAACCCAGAGCTGGCATCCGCGCTG 300  
 DB 380 CTGGCTCAAGCAGGAGAGCTCTGTGGAATCCCAACCCAGAGCTGGCGTCCGCGCTG 439  
 QY 301 TGGCGCACCTGCAAGTGGGTGGAAATGACATGACGCTGCTGCCCGCGGCTTGGCGTCT 360  
 DB 440 TGGCGCACCTGCAAGTGGGTGGAAATGACATGACGCTGCTGCCCGCGGCTTGGCGTCT 499  
 QY 361 GTTGAAGTGGTCAAGCTATGTTTTCAGAGGGGAGCGGTACAGCCACCGGCGAGAGAG 420  
 DB 500 GTTGAAGTGGTCAAGCTATGTTTTCAGAGGGGAGCGGTACAGCCACCGGCGAGAGAG 559  
 QY 421 TGTGCTCGCAAGCCAGCTGACCCACTACAGCAGCTCGTGTGGGCCACTCAAGCCAG 480  
 DB 560 TGTGCTCGCAAGCCAGCTGACCCACTACAGCAGCTCGTGTGGGCCACTCAAGCCAG 619  
 QY 481 CTGGGCTGTGGCGGACCTGTGCTCTGTCAGGCCAGACAGCGATAGAGCCTTTGCTGT 540

DB 620 CTGGGCTGTGGCGGCACCTGTGCTCTGACGGCCAGGACGATAGAGCCTTTGTCTGT 679  
 QY 541 GCCTACTCCCCGGAGGCACTGGAGGTCAACGGGAGAGCAATCATCCCTATAGAAG 600  
 DB 680 GCCTACTCCCCGGAGGCACTGGAGGTCAACGGGAGAGCAATCATCCCTATAGAAG 739  
 QY 601 GGTGCTGTGTGCTCTGACAGCCAGTGTCTCAGGCTGCTTCAAGGCTTGGGACCAT 660  
 DB 740 GGTGCTGTGTGCTCTGACAGCCAGTGTCTCAGGCTGCTTCAAGGCTTGGGACCAT 799  
 QY 661 GCAGGGGGGCTCTGTGAGGTCCCAGAGATCTTGTGCGATGAGTGGCAGAACCATGGA 720  
 DB 800 GCAGGGGGGCTCTGTGAGGTCCCAGAGATCTTGTGCGATGAGTGGCAGAACCATGGA 859  
 QY 721 CGTCTCAACATCAGACCTGCCACTGCTCCCTGCTACACGGGAGAGTACTGTC 780  
 DB 860 CGTCTCAACATCAGACCTGCCACTGCTCCCTGCTACACGGGAGAGTACTGTC 919  
 QY 781 CAAGTGAGGTGACGCTGTCAGTGTGTCACGGCCGGTTCGGGAGGAGTGTCTGCTGTC 840  
 DB 920 CAAGTGAGGTGACGCTGTCAGTGTGTCACGGCCGGTTCGGGAGGAGTGTCTGCTGTC 979  
 QY 841 GTCGTGACATCGGCTACGGGGAGCCAGTGTGCCACCAAGGTGCTATTTCCCTTCCAC 900  
 DB 980 GTCGTGACATCGGCTACGGGGAGCCAGTGTGCCACCAAGGTGCTATTTCCCTTCCAC 1039  
 QY 901 ACCTGTGACCTGAGGATCGAGGAGACTGCTTCATGCTGCTTTCAGAGGAGACACCTAT 960  
 DB 1040 ACCTGTGACCTGAGGATCGAGGAGACTGCTTCATGCTGCTTTCAGAGGAGACACCTAT 1099  
 QY 961 TACAGGCCAGGATGAAATGTTCAGAGGAAAGCGGGGTGCTGGCCAGATCAAGAGCCAG 1020  
 DB 1100 TACAGGCCAGGATGAAATGTTCAGAGGAAAGCGGGGTGCTGGCCAGATCAAGAGCCAG 1159  
 QY 1021 AAGTGCCAGGACATCTCGCCTTCTATCTGGGCGCCTGGAGACCAACAGAGTGACT 1080  
 DB 1160 AAGTGCCAGGACATCTCGCCTTCTATCTGGGCGCCTGGAGACCAACAGAGTGACT 1219  
 QY 1081 GACAGTCACTTCGAGACAGGAACTTCTGATCGGGCTCACTTCAAGACCCCAAGGAC 1140  
 DB 1220 GACAGTCACTTCGAGACAGGAACTTCTGATCGGGCTCACTTCAAGACCCCAAGGAC 1279  
 QY 1141 TCCTTCGCTGGGCGCACAGGAGGAGCACCAGGCTTTCACAGTTCCTTTGGGAGCCT 1200  
 DB 1280 TCCTTCGCTGGGCGCACAGGAGGAGCACCAGGCTTTCACAGTTCCTTTGGGAGCCT 1339  
 QY 1201 GACAAACAGGGGCTGGTGTGCTGAGTCTGCGATGGGGTTTGGCACTGCGTGGAGCTG 1260  
 DB 1340 GACAAACAGGCTGGTGTGCTGAGTCTGCGATGGGGTTTGGCACTGCGTGGAGCTG 1372  
 QY 1361 CAGGCTTCAGCTGCTTCAACTGGAACGACGAGCCTGCAAAACCCGAAACCGTTACATC 1320  
 DB 1373 CAGGCTTCAGCTGCTTCAACTGGAACGACGAGCCTGCAAAACCCGAAACCGTTACATC 1432  
 QY 1321 TGCCAG 1326  
 DB 1433 TGCCAG 1438  
 RESULT 10  
 AAK94246  
 ID AAK94246 standard; cdna; 1786 BP.  
 XX AAK94246;  
 AC AAK94246;  
 XX DT 06-NOV-2001 (first entry)  
 XX Human full-length cdna, SEQ ID NO: 2850.  
 XX Human; full length cdna; cdna synthesis; oligo-capping; ss.  
 XX Homo sapiens.

EP1130094-A2.  
05-SEP-2001.  
07-JUL-2000; 2000EP-0114089.  
08-JUL-1999; 99JP-0194486.  
11-JAN-2000; 2000JP-0118774.  
02-MAY-2000; 2000JP-0183765.  
(HELI-) HELIX RES INST.  
Ota T, Nishikawa T, Isogai T, Hayashi K, Ishii S, Kawai Y;  
Wakamatsu A, Sugiyama T, Nagai K, Kojima S, Otsuki T, Koga H;  
WPI; 2001-524255/58.  
P-PSDB; AAM93326.  
830 Primers useful for synthesizing full length cDNA clones and their  
use in genetic manipulation -  
Claim 8; SEQ ID NO 2850; 1380bp + sequence listing; English.  
The invention relates to primers for synthesizing full length cDNA  
clones. 830 cDNA molecules encoding a human protein have been  
isolated and nucleotide sequences of 5'- and 3'-ends of the cDNA  
molecules have been determined. Primers for synthesizing the full length  
cDNA are useful for clarifying the function of the protein encoded by  
the cDNA. The full length clones were obtained by construction of full  
length enriched cDNA libraries that were synthesised by the oligo-capping  
method. The primers enable the production of the full length cDNA easily  
without any special methods. The present sequence is a full length  
human cDNA of the invention.  
Note: The sequence data for this patent did not form part of the printed  
specification, but was obtained in CD-ROM format directly from EPO.  
Sequence 1786 BP; 361 A; 548 C; 553 G; 324 T; 0 other;  
Query Match 94.0%; Score 1246; DB 22; Length 1786;  
Best Local Similarity 97.2%; Pred. No. 3.1e-280;  
Matches 1289; Conservative 0; Mismatches 10; Indels 27; Gaps 1;  
QY 1 ATGCTGCATCCAGAGACCTCCCTGGCGGGGCGCATCTCTGGCTGTCCTGGCCCTC 60  
DB 73 ATGCTGCATCCAGAGACCTCCCTGGCGGGGCGCATCTCTGGCTGTCCTGGCCCTC 132  
QY 61 CTTGGCACCACCTGGCAGAGGTGTGGCCACCAGCTGCAGGAGCAGGCTCCGATGGCC 120  
DB 133 CTTGGCACCACCTGGCAGAGGTGTGGCCACCAGCTGCAGGAGCAGGCTCCGATGGCC 192  
QY 121 GGAGCCCTCAACAGGAAGAGAGATTCTTGCTCTCTCTCCCTGCACACCCGCTGCGCAGC 180  
DB 193 GGAGCCCTCAACAGGAAGAGAGATTCTTGCTCTCTCTCCCTGCACACCCGCTGCGCAGC 252  
QY 181 TGGGTCACAGCCCTCGGCTGCATCGCGGAGGCTGCAGTGGAGTGACAGCCTGGCCCAA 240  
DB 253 TGGGTCACAGCCCTCGGCTGCATCGCGGAGGCTGCAGTGGAGTGACAGCCTGGCCCAA 312  
QY 241 CTTGGCTCAAGCAGGCGACCCCTCTCTTGGAAATCCCAACCCGAGCCTGGCATCCGGCCTG 300  
DB 313 CTTGGCTCAAGCAGGCGACCCCTCTCTTGGAAATCCCAACCCGAGCCTGGCGTCCGGCCG 372  
QY 301 TGGGCGACCTCGAAGTGGGCTGGACATGCAGCTGCTGCCCGGGCTTGGGCTCCTTT 360  
DB 373 TGGGCGACCTCGAAGTGGGCTGGAAATGCAGCTGCTGCCCGGGCTTGGGCTCCTTT 432  
QY 361 GTTGAAGTGGTCAGGCTATGGTTTTCAGAGGGGACGCGGTACAGCCACGCGGAGGAG 420  
DB 433 GTTGAAGTGGTCAGGCTATGGTTTTCAGAGGGGACGCGGTACAGCCACGCGGAGGAG 492  
QY 421 TGTGCTCGCAACGCCACCTGCACCCACTACAGCAGCTGTTGGGCGACCTCAAGCCAG 480  
DB 493 TGTGCTCGCAACGCCACCTGCACCCACTACAGCAGCTGTTGGGCGACCTCAAGCCAG 552

QY 481 CTGGGCTGTGGGCGCACCTGTCTCTGCAGCGCAGACAGCATAGAGCCTTTGTCTGT 540  
DB 553 CTGGGCTGTGGGCGCACCTGTCTCTGCAGCGCAGCAGCATAGAGCCTTTGTCTGT 612  
QY 541 GCTACTCCCCCGGAGGCAACTGGGAGGTCAACGGGAAGACAAATCATCCCTTATAAAG 600  
DB 613 GCTACTCCCCCGGAGGCAACTGGGAGGTCAACGGGAAGACAAATCATCCCTTATAAAG 672  
QY 601 GGTGCTGTGTCTGCTCTGCACAGCAGTGTCTCAGGCTGCTTCAAGCCTGGGACAT 660  
DB 673 GGTGCTGTGTCTGCTCTGCACAGCAGTGTCTCAGGCTGCTTCAAGCCTGGGACAT 732  
QY 661 CGAGGGGGGCTCTGTGAGGTGCCAGGAATCTTGTGCGCATGAGCTGCCAGAACCATGGA 720  
DB 733 CGAGGGGGGCTCTGTGAGGTGCCAGGAATCTTGTGCGCATGAGCTGCCAGAACCATGGA 792  
QY 721 CCTCTCAACATCAGCAGCCTGCCACTGCCACTCTCCCTGGCTACACGGGAGAGTACTGC 780  
DB 793 CGTCTCAACATCAGCAGCCTGCCACTGCCACTCTCCCTGGCTACACGGGAGAGTACTGC 852  
QY 781 CAAAGTGAAGTGCAGCTGCAGTGTGTGCACGGCGGTTCCGGGAGGAGTGTCTGTGC 840  
DB 853 CAAAGTGAAGTGCAGCTGCAGTGTGTGCACGGCGGTTCCGGGAGGAGTGTCTGTGC 912  
QY 841 GTCTGTGACATCGGCTACCGGGGAGGCCAGTGTGCACCAAGGTGCATTTTCCCTTCCAC 900  
DB 913 GTCTGTGACATCGGCTACCGGGGAGGCCAGTGTGCACCAAGGTGCATTTTCCCTTCCAC 972  
QY 901 ACCTGTGACCTGAGGATCAGGAGTGTGCATGCTGCTTTCAGAGGAGCAGACCTAT 960  
DB 973 ACCTGTGACCTGAGGATCAGGAGTGTGCATGCTGCTTTCAGAGGAGCAGACCTAT 1032  
QY 961 TACAGAGCAGGATGAATGTTCAGAGGAAGGGGGTGTGCTGCCAGATCAAGAGCCAG 1020  
DB 1033 TACAGAGCAGGATGAATGTTCAGAGGAAGGGGGTGTGCTGCCAGATCAAGAGCCAG 1092  
QY 1021 AAGTGCAGGACATCTCGCTTCTATCTGGGCGGCTTGAGACACCAACGAGGTGACT 1080  
DB 1093 AAGTGCAGGACATCTCGCTTCTATCTGGGCGGCTTGAGACACCAACGAGGTGACT 1152  
QY 1081 GACAGTGTGACATCAGACAGGAACTTCTGGATCGGCTCACCTACAGAGCCGCAAGGAC 1140  
DB 1153 GACAGTGTGACATCAGACAGGAACTTCTGGATCGGCTCACCTACAGAGCCGCAAGGAC 1212  
QY 1141 TCCTTCCGCTGGGCCACAGGGGAGCAGGCTTCCACAGTTTTCGCTTTGGGCGAGCCT 1200  
DB 1213 TCCTTCCGCTGGGCCACAGGGGAGCAGGCTTCCACAGTTTTCGCTTTGGGCGAGCCT 1272  
QY 1201 GACAAACAGGGCTGCTGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1260  
DB 1273 GACAAACAGGGCTGCTGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1305  
QY 1261 CAGGCTTTCAGCTGCTTCACTGGAAACAGCAGGCTGCAAAACCCGAAACCTTTACATC 1320  
DB 1306 CAGGCTTTCAGCTGCTTCACTGGAAACAGCAGGCTGCAAAACCCGAAACCTTTACATC 1365  
QY 1321 TGCCAG 1326  
DB 1366 TGCCAG 1371

RESULT 11  
AAS91790  
ID AAS91790 standard; cDNA: 1934 BP.

XX AAS91790;

XX AC

DT 13-FEB-2002 (first entry)

DE DNA encoding novel human diagnostic protein #27594.

XX Human; chromosome mapping; gene mapping; gene therapy; forensic;

food supplement; medical imaging; diagnostic; genetic disorder; ss.

Homo sapiens.

WO200175067-A2.

11-OCT-2001.

30-MAR-2001; 2001WO-US08631.

31-MAR-2000; 2000US-0540217.

23-AUG-2000; 2000US-0649167;

(HYSE-) HYSEO INC.

Drmanac RT, Liu C, Tanq YT;

WPI; 2001-639362/73.

P-PSDB; ABG27603.

New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity -

Claim 1; SEQ ID No 27594; 103pp; English.

The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptides and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic coding sequences of the invention.

Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published\\_pct\\_sequences](http://ftp.wipo.int/pub/published_pct_sequences).

Sequence 1934 BP; 409 A; 577 C; 576 G; 372 T; 0 other;

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ry Match          90.9%;   Score 1205.6;   DB 23;   Length 1934;
t Local Similarity 95.9%;   Pred. No. 8e-271;
ches 1285; Conservative 0; Mismatches 14; Indels 41; Gaps 3;

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**QV** 1 ATGCTGCATCCAGAGACCTCCCCCTGGCCCGGGGGCATCTCCTGGCTGTGCTGCCCTCCCCTC 60

Db 181 ATGCTGCATCCAGAGACCTCCCCGGCCGGGGCATCTCTGGTGTGCTCTGGCCCTC 240

QY 61 CTTGGCACCACTGGGCAGAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCC 120

Db 241 CTTGGCACCGCCCTGGCGAGAGTGTGGCCACCCAGTCAGGAGCAGGCTCCGATGGCC 300

QY 121 GGAGCCCTGAACAGGAGAGAGTTCTTGTCTCTCCCTGCACAACCGCCTGGCAGC 180

Db 301 GGAGCCCTGAACAGGAAGGAGAGTTTCTTGCTCCTCTCCCTGCACACCGCCTGGCAGC 360

QY 181 TGGGTCCAGCCCCCTCGGGCTGACATCGGGAGGCTGGACTGGAGTGACAGCCTGGCCCCAA 240

Db 361 TGGGTCCAGCCCCCTCGGGCTGACATGCGGAGGCTGGACTGGAGTGACAGCTGGCCCCAG 420

QY 241 CTGGCTCAAGCCAGGCGAGCCCTCTGTGTGAATCCCAACCCCGAGCCTGGCATCCGGCGCTG 300

|    |      |  |      |
|----|------|--|------|
| Db | 421  | CTGGCTCAAGCCAGGGCAGCCCTGTGTGGAAACCCCAACCCGAGAGCCTTGGCGTCCGGCCGTG | 480  |
| Qy | 301  | TGGCGCACCCCTCAAGTGGGCTGGAACATGCAGCTGCTGCCGCGGGCTTGGCGTCCCTTT     | 360  |
| Db | 481  | TGGCGCACCCCTCAAGTGGGCTGGAACATGCAGCTGCTACCCGGGGCTTGGTGTCTCTTT     | 540  |
| Qy | 361  | GTTGAAGTGGTACGCCCTATGTTTGCAGAGGGCAGGGTACAGCCACGCGCAGGAGAG        | 420  |
| Db | 541  | GTCGAAGTGGTACGCCCTATGTTTGCAGAGGGCAGCGGTACAGCCACGCGCAGGAGAG       | 600  |
| Qy | 421  | TGTGCTCGCAACGCCACCTGCACCCACTACAGCAGTCTGTGTGGGCCACCTCAAGCCAG      | 480  |
| Db | 601  | TGTGCTCGCAACGCCACCTGCACCCACTACAGCAGTCTGTGTGGGCCACCTCAAGCCAG      | 660  |
| Qy | 481  | CTGGGCTGTGGGGCAGCCTGTGCTCTGCAGGCCAGACGATAGAGCCTTTGCTCTGT         | 540  |
| Db | 661  | CTGGGCTGTGGGGCAGCCTGTGCTCTGCAGGCCAGCAGATAGAGCCTTTGCTCTGT         | 720  |
| Qy | 541  | GCTACTCCCCCGGAGGCAACTGGGAGGTCAACGGGAAGACAATCATCCCTATAGAAG        | 600  |
| Db | 721  | GCTACTCCCCCGGAGGCAACTGGGAGGTCAACGGGAAGACAATCATCCCTATAGAAG        | 780  |
| Qy | 601  | GGTGCTGTGTTCGCTCTGCACAGCCAGTGTCTCAGGCTGCTTCAAAGCTGGGACCAT        | 660  |
| Db | 781  | GGTGCTGTGTTCGCTCTGCACAGCCAGTGTCTCAGGCTGCTTCAAAGCTGGGACCAT        | 840  |
| Qy | 661  | GCAGGGGGCTGTGAGGTGCTCCAGGAATCCTTGTGCATGAGCTGCCAGAACCATGGA        | 720  |
| Db | 841  | GCAGGGGGCTGTGAGGTGCTCCAGGAATCCTTGTGCATGAGCTGCCAGAACCATGGA        | 900  |
| Qy | 721  | CGTCTCAACATCAGCACCTGCCACTGCCACTGTCCCCCTGGCTACAGGGCAGATACGTC      | 780  |
| Db | 901  | CGTCTCAACATCAGCACCTGCCACTGCCACTGTCCCCCTGGCTACAGGGCAGATACGTC      | 960  |
| Qy | 781  | CAAGTGAAGTGCAGCCTGCAGTGTGTGCACGGCGGTTCGGGAGGAGTGTCTGCTGC         | 840  |
| Db | 961  | CAAGTGAAGTGCAGCCTGCAGTGTGTGCACGGCGGTTCGGGAGGAGTGTCTGCTGC         | 1020 |
| Qy | 841  | GTCTGTGACATCGCTACGGGGAGCCCACTGTGCCACCAAGTGTGCAATTTCCCTTCCAC      | 900  |
| Db | 1021 | GTCTGTGACATCGCTACGGGGAGCCCACTGTGCCACCAAGTGTGCAATTTCCCTTCCAC      | 1080 |
| Qy | 901  | ACCTGTGACCTGAGGATCAGCGAGACTGCTTCATGTGTCTTC - AGAGGCAGACACCTA     | 959  |
| Db | 1081 | ACCTGTGACCTGAGGATCAGCGAGACTGCTTCATGTGTCTTCAGAGGGCAGACACCTA       | 1140 |
| Qy | 960  | TTACAGAGCCAGGATGAAATGT-----CAGAGAAAGGGGGTGTCTGGGCC               | 1008 |
| Db | 1141 | TTACAGAGCCAGGATGAAATGT-----CAGAGAAAGGGGGTGTCTGGGCC               | 1200 |
| Qy | 1007 | AGATCAAGAGCCAGAAAGTGCAGGACATCTCTGCCCTCTATCTGGGGCGCTTGAGAGCA      | 1068 |
| Db | 1201 | AGATCAAGAGCCAGAAAGTGCAGGACATCTCTGCCCTCTATCTGGGGCGCTTGAGAGCA      | 1260 |
| Qy | 1067 | CCAACGAGTGACTGACAGTGACTTCGAGACCAAGGAACCTTGATCGGCTCACTTACA        | 1128 |
| Db | 1261 | CCAACGAGTGACTGACAGTGACTTCGAGACCAAGGAACCTTGATCGGCTCACTTACA        | 1320 |
| Qy | 1127 | AGACGCCAAGGACTCTCTCCGCTGGGCCACAGGGAGCACCGGCTTCACCAAGTTTG         | 1188 |
| Db | 1321 | AGACGCCAAGGACTCTCTCCGCTGGGCCACAGGGAGCACCGGCTTCACCAAGTTTG         | 1380 |
| Qy | 1187 | CCTTTGGCAGCCTGACACACCGGCTGGTGTGGCTGAGTGTGCCATGGGGTTGGCA          | 1248 |
| Db | 1381 | CCTTTGGCAGCCTGACACACCGGCTGGTGTGGCTGAGTGTGCCATGGGGTTGGCA          | 1440 |
| Qy | 1247 | ACTGGTGGAGCTGCAGGCTTCAGCTGCTTCAACTGGAAACGACCGCTGCAAAACCC         | 1306 |
| Db | 1414 | ACTGGTGGAGCTGCAGGCTTCAGCTGCTTCAACTGGAAACGACCGCTGCAAAACCC         | 1473 |
| Qy | 1307 | GAAACCGTTACATCTGCCAG   | 1326 |
| Db | 1474 | GAAACCGTTACATCTGCCAG   | 1493 |







XX Human; ovarian carcinoma; ovarian cancer; therapy; diagnosis;  
KW tumour antigen; identification; cytostatic; gene therapy; vaccine; ss.  
XX Homo sapiens.  
XX WO200036107-A2.  
XX 22-JUN-2000.  
XX 17-DEC-1999; 99WO-US30270.  
XX 17-DEC-1998; 98US-0215681.  
XX 17-DEC-1998; 98US-0216003.  
XX 23-JUN-1999; 99US-0338933.  
XX 24-SEP-1999; 99US-0404879.  
XX (CORI-) CORIXA CORP.  
XX Mitcham JL, King GE, Algate PA, Frudakis TN;  
XX WPI; 2000-431589/37.  
XX Immunogenic portion of an ovarian carcinoma protein and the nucleic  
PT acid encoding it, useful for the diagnosis, prevention and treatment of  
PT cancer, preferably ovarian cancer -  
XX Claim 1; Page 177; 299pp; English.  
XX The present invention describes an isolated polypeptide comprising an  
CC immunogenic portion of an ovarian carcinoma protein (or its variants).  
CC Ovarian carcinoma proteins, and polynucleotides encoding them, have  
CC cytostatic activity and can be used in gene therapy and vaccines.  
CC Ovarian carcinoma polypeptides, nucleic acids, antibodies and vaccines  
CC are useful for the prevention, diagnosis and treatment of cancer,  
CC preferably ovarian cancer. AAA69691 to AAA70077 and AAB12552 to AAB12557  
CC represent human ovarian carcinoma polynucleotides and proteins used in  
CC the exemplification of the present invention.  
XX Sequence 690 BP; 148 A; 197 C; 212 G; 131 T; 2 other;

Query Match 50.7%; Score 672.8; DB 21; Length 690;  
Best Local Similarity 99.3%; Pred. No. 5.4e-147;  
Matches 685; Conservative 0; Mismatches 4; Indels 1; Gaps 1;  
QY 482 TGGGCTGTGGGGCCACCTGTCTCTGCAGCCAGACAGAGGATAGAGCTTTGTCTGTG 541  
DB 1 TGGGCTGTGGGGCCACCTGTCTCTGCAGCCAGACAGAGGATAGAGCTTTGTCTGTG 60  
QY 542 CCTACTCCCCGGAGGCACTGGGAGGTCAACGGGAAGACAATCATCCCCATAAGAAG 601  
DB 61 CCTACTCCCCGGAGGCACTGGGAGGTCAACGGGAAGACAATCATCCCCATAAGAAG 120  
QY 602 GTGCTGTGTGTCTCTGCAGCCAGGCTCTCAGGCTGCTTCAAGGCTGGGACCATG 661  
DB 121 GTGCTGTGTGTCTCTGCAGCCAGGCTCTCAGGCTGCTTCAAGGCTGGGACCATG 180  
QY 662 CAGGGGGCTGTGTGAGGTCCCGAGGAATCTTGTGCGCATGAGCTGCCAAGACCATGGAC 721  
DB 181 CAGGGGGCTGTGTGAGGTCCCGAGGAATCTTGTGCGCATGAGCTGCCAAGACCATGGAC 240  
QY 722 GTCTCAACATCAGCCCTGCCACTGCCACTGTCCCTCGCTACAGGGGAGATCTGCC 781  
DB 241 GTCTCAACATCAGCCCTGCCACTGCCACTGTCCCTCGCTACAGGGGAGATCTGCC 300  
QY 782 AAGTGAGGTGACCGCTGTGAGTGTGTGTCAGCGCGGFTCCGGGAGGAGGAGTCTCGTGG 841  
DB 301 AAGTGAGGTGACCGCTGTGAGTGTGTGTCAGCGCGGFTCCGGGAGGAGGAGTCTCGTGG 360  
QY 842 TCTGTGACATCGGCTACGGGGAGGCCAGTGTGCCACCAAGGTGCAATTTTCCCTTCCACA 901  
DB 361 TCTGTGACATCGGCTACGGGGAGGCCAGTGTGCCACCAAGGTGCAATTTTCCCTTCCACA 420

QY 902 CCTGTGACCTGAGGATCGACGGAGACTGCTTCTATGGTGTCTTTCAGAGGACACACCTATT 961  
DB 421 CCTGTGACCTGAGGATCGACGGAGACTGCTTCTATGGTGTCTTTCAGAGGACACACCTATT 480  
QY 962 ACAG-AGCCAGGATGAATGTTCAGAGGAAAGCGGGGTGCTGGCCAGATCAAGAGCCAG 1020  
DB 481 ACAGAGCCAGGATGAATGTTCAGAGGAAAGCGGGGTGCTGGCCAGATCAAGAGCCAG 540  
QY 1021 AAAGTGACGACATCTCTCGCTTCTATCTGGGCGCCCTGGAGACACCAAGAGGTGACT 1080  
DB 541 AAAGTGACGACATCTCTCGCTTCTATCTGGGCGCCCTGGAGACACCAAGAGGTGACT 600  
QY 1081 GACAGTGACTTCGAGACGAGAACTTCTGATCGGGCTCACCTACAGACCGCCAGGAC 1140  
DB 601 GACAGTGACTTCGAGACGAGAACTTCTGATNGGGCTCACCTACAGACCGCCAGGAC 660  
QY 1141 TCCTTCCGCTGGGCCACAGGGGAGCACCAG 1170  
DB 661 TCCTTCCGCTGGGCCACAGGGGAGCACCAG 690  
RESULT 14  
ABN72904  
ID ABN72904 standard; DNA; 690 BP.  
XX AC ABN72904;  
XX 02-JUL-2002 (first entry)  
DT Ovarian carcinoma antigen polynucleotide #9.  
XX Human; immunostimulant; cytostatic; cancer; ovarian carcinoma; ds.  
XX Homo sapiens.  
XX WO200206317-A2.  
XX 24-JAN-2002.  
XX 17-JUL-2001; 2001WO-US22635.  
XX 17-JUL-2000; 2000US-0617747.  
XX 10-AUG-2000; 2000US-0636801.  
XX 20-SEP-2000; 2000US-0667857.  
XX 04-APR-2001; 2001US-0827271.  
XX 18-JUN-2001; 2001US-0884441.  
XX (CORI-) CORIXA CORP.  
XX Mitcham JL, King GE, Algate PA, Fling SP, Retter MW, Fanger GR;  
PI Reed SG, Vedrick TS, Carter D, Hill P, Albone E;  
XX WPI; 2002-164781/21.  
XX Polypeptides comprising an immunogenic portion of an ovarian carcinoma  
PT protein or its variants, useful for stimulating an immune response in a  
PT patient and treating ovarian cancer -  
XX Example 2; Page 296; 408pp; English.  
XX This invention relates to polypeptides comprising an immunogenic  
CC portion of an ovarian carcinoma protein which acts as an  
CC immunostimulant and is cytostatic. The polypeptides, polynucleotides,  
CC antibodies, fusion proteins, T cell populations and antigen presenting  
CC cells that express the polypeptides are useful for stimulating an  
CC immune response in a patient and treating ovarian cancer. This  
CC sequence represents DNA related to the invention.  
XX Sequence 690 BP; 148 A; 197 C; 212 G; 131 T; 2 other;

Query Match 50.7%; Score 672.8; DB 24; Length 690;  
Best Local Similarity 99.3%; Pred. No. 5.4e-147;  
Matches 685; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

|                                     |   |
|-------------------------------------|---|
| RESULT 15                           |   |
| AAAS76343                           |   |
| ID AAS76343 standard; cDNA; 906 BP. |   |
| XX AC                               |   |
| XX AC                               |   |
| DT DT                               |   |
| XX XX                               | 13-FEB-2002 (first entry)   |
| DE DE                               | DNA encoding novel human diagnostic protein #12147.                 |
| XX XX                               | Human; chromosome mapping; gene mapping; gene therapy; forensic;    |
| KW KW                               | food supplement; medical imaging; diagnostic; genetic disorder; ss. |
| OS OS                               |   |
| XX XX                               | Homo sapiens.   |
| PN PN                               | WO200175067-A2.   |
| XX XX                               |   |
| PD PD                               | 11-OCT-2001.  |
| XX XX                               |   |
| PF PF                               | 30-MAR-2001; 2001WO-US08631.  |
| XX XX                               |   |
| PR PR                               | 31-MAR-2000; 2000US-0540217.  |
| PR PR                               | 23-AUG-2000; 2000US-0649167.  |

| Query Match           | 49.6%  | Score 657.2        | DB 23    | Length 906 |
|-----------------------|--|--------------------|----------|------------|
| Best Local Similarity | 95.3%  | Pred. No. 2.5e-143 |          |            |
| Matches 688           | Conservative 0   | Mismatches 33      | Indels 1 | Gaps 1     |
| QY 1                  | ATGCTGCATCCAGAGACCTCCCTGGCGGGGGCATCTCTGGCTGTGCTCTGGCCCTC 60      |                    |          |            |
| Db                    |  |                    |          |            |
| 127                   | ATGCTGCATCCAGAGACCTCCCTGGCGGGGGCATCTCTGGCTGTGCTCTGGCCCTC 186     |                    |          |            |
| QY                    |  |                    |          |            |
| 61                    | CTTTGGCACCACTGGGCAGAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGCCC 120  |                    |          |            |
| Db                    |  |                    |          |            |
| 187                   | CTTTGGCACCACTGGGCAGAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGCCC 246  |                    |          |            |
| QY                    |  |                    |          |            |
| 121                   | GGAGCCCTGAACAGGAGGAGGTTTCTTGCTCTCTCCCTGCACCAACCGCTGGCGCAGC 180   |                    |          |            |
| Db                    |  |                    |          |            |
| 247                   | GGAGCCCTGAACAGGAGGAGGTTTCTTGCTCTCTCCCTGCACCAACCGCTGGCGCAGC 306   |                    |          |            |
| QY                    |  |                    |          |            |
| 181                   | TGGTCCAGCCCCCTGGGGCTTGACATCGGAGGCTGGACTGAGTGCAGGCTGGCCCAA 240    |                    |          |            |
| Db                    |  |                    |          |            |
| 307                   | TGGTCCAGCCCCCTGGGGCTTGACATCGGAGGCTGGACTGAGTGCAGGCTGGCCCAA 366    |                    |          |            |
| QY                    |  |                    |          |            |
| 241                   | CTGGCTCAAGCCAGGGCAGCCCTCTGTGGATCCCAACCCGAGGCTGGCATCCGGCCTG 300   |                    |          |            |
| Db                    |  |                    |          |            |
| 367                   | CTGGCTCAAGCCAGGGCAGCCCTCTGTGGATCCCAACCCGAGGCTGGCATCCGGCCTG 426   |                    |          |            |
| QY                    |  |                    |          |            |
| 301                   | TGGCGCACCCCTGCAAGTGGGCTGGAACATGCAGCTGCTGCCCGCGGGCTTGGCGTCTTT 360 |                    |          |            |
| Db                    |  |                    |          |            |
| 427                   | TGGCGCACCCCTGCAAGTGGGCTGGAACATGCAGCTGCTGCCCGCGGGCTTGGCGTCTTT 486 |                    |          |            |
| QY                    |  |                    |          |            |
| 361                   | GTTGAAGTGGTCAGCCTATGTTTGCAGAGGGGCACGGGTACAGCCACGCGCAGAGAG 420    |                    |          |            |
| Db                    |  |                    |          |            |
| 487                   | GTCGAAGTGGTCAGCCTATGTTTGCAGAGGGGCACGGGTACAGCCACGCGCAGAGAG 546    |                    |          |            |
| QY                    |  |                    |          |            |
| 421                   | TGTGCTGCACAGCCACCTGCACCCACTACAGGCAGCTGTGTGGGCCACCTCAAGCCAG 480   |                    |          |            |
| QY                    |  |                    |          |            |

Db 547 TGAGCTCGAAGCCACCTGACCCCACTACATGACGCTCGTGTGGCCACCTCAAGCCAG 606  
 QY 481 CTGGGCTGTGGCGGCACCTGTGCTCTGAGGCGCAGACAGCGATAGAAGCCTTTGCTGT 540  
 Db 607 CTGGGCTGTGGCGGCACCTGTGCTCTGAGGCGCAGACAGCGATAGAAGCCTTTGCTGT 666  
 QY 541 GCCTACTCCCCCGGAGGCAACTGGGAGGTCAAGGGGAAGACAATCATCCCTATAAGAAG 600  
 Db 667 GCCTACTCCCCCGAGAGCAACTGGGAGGTCAAGGGGAAGACAATCGTCCCTATAAAAAG 726  
 QY 601 GGTGCTGTGTGCTCTGACACAGCCAGTGTCTCAGGCTGTCTCAAAGCCTGGGACCAT 650  
 Db 727 GGGGCTGTGGGCTGCTCTGACAGCCAGTGTCTCAAAGCCTGGGACCAT 786  
 QY 661 GCAGGGGGCT-CTGTGAGGTCCCGAGGAATCTTGTGCTGATGAGCTGCCAGAACCATGG 719  
 Db 787 GCCAGGGGGCTACTGGGGGGCCCCCGGGAACCTTGGGGAAGAGCCGACAGAACCCCTGG 846  
 QY 720 AC 721  
 Db 847 AC 848

Search completed: December 28, 2002, 17:01:44  
 Job time : 271.586 secs



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OM nucleic - nucleic search, using sw model

Run on: December 28, 2002, 15:40:17 ; Search time 48.913 Seconds  
(without alignments)  
11372.097 Million cell updates/sec

Title: US-09-944-896-49\_COPY\_201\_447

Perfect score: 247

Sequence: 1 gaggtgtggcaccaccagct.....caccctgcaagtgggtgga 247

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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2: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1981.DAT.*
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4: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1983.DAT.*
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18: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1997.DAT.*
19: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1998.DAT.*
20: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT.*
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23: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT.*
24: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|-------------|
| 1          | 247   | 100.0       | 1876   | 20 | AA87260     |
| 2          | 247   | 100.0       | 1876   | 20 | AA880053    |
| 3          | 247   | 100.0       | 1876   | 21 | AAA46918    |
| 4          | 247   | 100.0       | 1876   | 21 | AAA49561    |
| 5          | 245.4 | 99.4        | 855    | 21 | AAZ50926    |
| 6          | 245.4 | 99.4        | 906    | 23 | AAZ50926    |
| 7          | 245.4 | 99.4        | 1338   | 20 | AAZ52300    |
| 8          | 245.4 | 99.4        | 1775   | 22 | AAZ12570    |
| 9          | 245.4 | 99.4        | 1856   | 20 | AAZ23299    |

|    |       |      |      |    |          |
|----|-------|------|------|----|----------|
| 10 | 245.4 | 99.4 | 1856 | 24 | AA833531 |
| 11 | 245.4 | 99.4 | 1923 | 22 | AAF24152 |
| 12 | 243.8 | 98.7 | 517  | 22 | AAH98469 |
| 13 | 242.2 | 98.1 | 512  | 22 | AAK91830 |
| 14 | 242.2 | 98.1 | 512  | 22 | AAK92323 |
| 15 | 242.2 | 98.1 | 1786 | 22 | AAK94246 |
| 16 | 242.2 | 98.1 | 1934 | 23 | AAK91790 |
| 17 | 106.6 | 43.2 | 792  | 23 | AAK91790 |
| 18 | 106.6 | 43.2 | 792  | 23 | AAK91790 |
| 19 | 46.6  | 18.9 | 759  | 24 | ABL57727 |
| 20 | 46.6  | 18.9 | 840  | 22 | AAH05058 |
| 21 | 46.6  | 18.9 | 939  | 22 | AAH98687 |
| 22 | 46.6  | 18.9 | 1491 | 22 | AAH98687 |
| 23 | 46.6  | 18.9 | 1494 | 24 | ABL57728 |
| 24 | 46.6  | 18.9 | 1669 | 22 | AAH17765 |
| 25 | 46.6  | 18.9 | 1690 | 22 | AAH15690 |
| 26 | 46.6  | 18.9 | 1824 | 24 | ABK33563 |
| 27 | 46.6  | 18.9 | 2272 | 22 | AAH77687 |
| 28 | 46.6  | 18.9 | 2400 | 22 | AAH77687 |
| 29 | 46.6  | 18.9 | 2403 | 22 | AAH77687 |
| 30 | 46.6  | 18.9 | 2412 | 22 | AAH77687 |
| 31 | 46.6  | 18.9 | 3483 | 24 | AAH38692 |
| 32 | 46.6  | 18.9 | 3836 | 24 | AAH39682 |
| 33 | 46.6  | 18.9 | 4877 | 22 | AAH60871 |
| 34 | 46.6  | 18.9 | 4877 | 22 | AAH60871 |
| 35 | 46.6  | 18.9 | 4877 | 22 | AAH60871 |
| 36 | 45.6  | 18.5 | 2305 | 22 | AAH60883 |
| 37 | 37.6  | 15.2 | 3183 | 22 | AAH60833 |
| 38 | 37.6  | 15.2 | 720  | 22 | AAH60833 |
| 39 | 37.6  | 15.2 | 1288 | 23 | AAH83963 |
| 40 | 37.6  | 15.2 | 1877 | 22 | AAH93855 |
| 41 | 36.6  | 14.8 | 2818 | 23 | AAH94552 |
| 42 | 36.2  | 14.7 | 7047 | 23 | AAH94552 |
| 43 | 36    | 14.6 | 970  | 19 | AAH94552 |
| 44 | 36    | 14.6 | 1803 | 22 | AAH94552 |
| 45 | 36    | 14.6 | 1875 | 20 | AAH94552 |

#### ALIGNMENTS

RESULT 1  
AA87260  
ID AA87260 standard; cDNA; 1876 Bp.

XX AA87260;

XX 27-SEP-1999 (first entry)

XX cDNA clone encoding human PRO347, amplified in tumour cells.

XX PRO347; UNQ306; cancer; tumour; diagnosis; therapy; human; ss.

XX Homo sapiens.

XX Key Location/Qualifiers

XX CDS 123..1490

XX FT /\*tag= a

XX FT sig\_peptide 123..200

XX FT /\*tag= b

XX FT mat\_peptide 201..1487

XX FT /\*tag= c

XX WO9935170-A2.

XX 15-JUL-1999.

XX 05-JAN-1999;

XX 20-NOV-1998;

XX 05-JAN-1998;

XX 29-APR-1998;

XX 22-MAY-1998;

Human T139 (TANGO-  
Human secreted pro  
Human EST-derived  
Human cDNA 5'-end  
Human cDNA clone r  
Human full-length  
DNA encoding novel  
DNA encoding novel  
DNA encoding novel  
Human sbg10026201  
Human cDNA clone (Rat  
Rat EST-derived co  
Human protease-inh  
Human sbg10026201  
Human novel trypsi  
Human cDNA sequenc  
cDNA encoding huma  
Human protease-inh  
Human novel trypsi  
Human novel trypsi  
Human LP095 secret  
Human secreted pro  
Human cancer agent  
Human cancer agent  
Human cancer agent  
Human novel trypsi  
Pseudomonas sp exp  
Primer specific fo  
DNA encoding novel  
Human cDNA encodin  
DNA encoding novel  
DNA encoding novel  
DNA encoding a hum  
Human polynucleoti  
Protein PRO328 CDN

Mon Dec 30 09:16:19 2002

```

PR 10-JUN-1998; 98US-0088742.
PR 10-NOV-1998; 98US-0107783.
XX (GETH ) GENENTECH INC.
XX Botstein D, Goddard A, Gurney AL, Hillan KJ, Lawrence DA;
PI Roy MA, Wood WI;
XX WPI; 1999-430385/36.
DR P-PSDB; AAY06483.
XX Antibody against proteins expressed in neoplastic cells, useful for
PT tumor diagnosis and treatment
XX Example 1; Fig 13; 162pp; English.
XX This is the nucleotide sequence of cDNA clone DNA44176 (ATCC 209532)
CC coding for human PRO347 (UHQ306) (see AAY06482). The clone was
CC isolated from a foetal kidney library. Amplification of DNA44176
CC occurs in various tumours, suggesting an association with tumour
CC formation or growth. Antagonists (e.g. antibodies) directed against
CC PRO347 may have use in cancer therapy. The invention identifies 14
CC genes (see AAX87254-67) that are amplified in the genome of tumour
CC cells. Such amplification is expected to be associated with
CC overexpression of the gene product and to contribute to
CC tumorigenesis. The encoded proteins (see AAY06477-90) may be useful
CC targets for the diagnosis and/or treatment (including prevention) of
CC of certain cancers, and may act as predictors of the prognosis of
CC tumour treatment.
XX
XX SQ Sequence 1876 BP; 387 A; 568 C; 574 G; 347 T; 0 other;

Query Match 100.0%; Score 247; DB 20; Length 1876;
Best Local Similarity 100.0%; Pred. No. 7.1e-51;
Matches 247; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGTGTGCGCCACCCAGCTGCAGGAGCAGGCTCCGATGCGCGGAGCCCTGAACAGGAAG 60
Db |||||||
QY 201 GAGGTGTGCGCCACCCAGCTGCAGGAGCAGGCTCCGATGCGCGGAGCCCTGAACAGGAAG 260
Db |||||||
QY 61 GAGAGTTTCTTGTCTCTCCCTGCGACACCGCGCTGCGAGCTGGTCCAGCCCTCGG 120
Db |||||||
QY 261 GAGAGTTTCTTGTCTCTCCCTGCGACACCGCGCTGCGAGCTGGTCCAGCCCTCGG 320
Db |||||||
QY 121 GCTGACATGCGGAGGCTGGAGTGACAGCTGCGCCCAACTGGCTCAAGCCAGGGA 180
Db |||||||
QY 321 GCTGACATGCGGAGGCTGGAGTGACAGCTGCGCCCAACTGGCTCAAGCCAGGGA 380
Db |||||||
QY 181 GCCCTCTGTGGAATCCCAACCCCGAGCTGGCAATCGGCTGTGGCGCACCCCTCAAGTG 240
Db |||||||
QY 381 GCCCTCTGTGGAATCCCAACCCCGAGCTGGCAATCGGCTGTGGCGCACCCCTCAAGTG 440
Db |||||||
QY 241 GGCTGGA 247
Db 441 GGCTGGA 447

RESULT 2
AAX80053
ID AAX80053 standard; cDNA; 1876 BP.
XX
AC AAX80053;
XX
DT 12-AUG-1999 (first entry)
XX
DE Human PRO347 nucleotide sequence.
XX
KW Human; PRO protein; tumour necrosis factor family; TNF; cytokine;
KW secreted protein; transmembrane protein; inflammation disorder; ss.
XX
OS Homo sapiens.
XX
PN W0928462-A2.

```

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XX 10-JUN-1999.
PD 01-DEC-1998; 98WO-US25108.
XX 25-FEB-1998; 98US-0075945.
PR 03-DEC-1997; 97US-0067411.
PR 11-DEC-1997; 97US-0069278.
PR 11-DEC-1997; 97US-0069334.
PR 11-DEC-1997; 97US-0069335.
PR 12-DEC-1997; 97US-0069425.
PR 16-DEC-1997; 97US-0069694.
PR 16-DEC-1997; 97US-0069702.
PR 16-DEC-1997; 97US-0069870.
PR 17-DEC-1997; 97US-0069873.
PR 17-DEC-1997; 97US-0068017.
PR 18-DEC-1997; 97US-0070440.
PR 05-JAN-1998; 98US-0074086.
PR 09-FEB-1998; 98US-0074092.
XX (GETH ) GENENTECH INC.
XX Baker KP, Chen J, Goddard A, Gurney AL, Wood WI;
PI Yuan J;
XX WPI; 1999-371118/31.
DR P-PSDB; AAY17828.
XX Nucleic acids encoding PRO secreted and transmembrane proteins
PT
XX Claim 2; Fig 22; 123pp; English.
XX The present invention describes nucleic acids encoding PRO secreted and
XX transmembrane proteins used therapeutically. The PRO proteins have
XX cytostatic, anti-inflammatory, anti-proliferative and immunosuppressive
XX activity. The proteins and polynucleotides can be used in therapy,
XX identification of homologues, raising antibodies and design of probes
XX and primers. They can be used in a range of diseases related to proteins
XX that they have homology with, e.g. a PRO protein having homology to
XX complement proteins may be used in inflammatory responses.
XX
XX SQ Sequence 1876 BP; 387 A; 568 C; 574 G; 347 T; 0 other;

Query Match 100.0%; Score 247; DB 20; Length 1876;
Best Local Similarity 100.0%; Pred. No. 7.1e-51;
Matches 247; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGTGTGCGCCACCCAGCTGCAGGAGCAGGCTCCGATGCGCGGAGCCCTGAACAGGAAG 60
Db |||||||
QY 201 GAGGTGTGCGCCACCCAGCTGCAGGAGCAGGCTCCGATGCGCGGAGCCCTGAACAGGAAG 260
Db |||||||
QY 61 GAGAGTTTCTTGTCTCTCCCTGCGACACCGCGCTGCGAGCTGGTCCAGCCCTCGG 120
Db |||||||
QY 261 GAGAGTTTCTTGTCTCTCCCTGCGACACCGCGCTGCGAGCTGGTCCAGCCCTCGG 320
Db |||||||
QY 121 GCTGACATGCGGAGGCTGGAGTGACAGCTGCGCCCAACTGGCTCAAGCCAGGGA 180
Db |||||||
QY 321 GCTGACATGCGGAGGCTGGAGTGACAGCTGCGCCCAACTGGCTCAAGCCAGGGA 380
Db |||||||
QY 181 GCCCTCTGTGGAATCCCAACCCCGAGCTGGCAATCGGCTGTGGCGCACCCCTCAAGTG 240
Db |||||||
QY 381 GCCCTCTGTGGAATCCCAACCCCGAGCTGGCAATCGGCTGTGGCGCACCCCTCAAGTG 440
Db |||||||
QY 241 GGCTGGA 247
Db 441 GGCTGGA 447

RESULT 3
AAA46918
ID AAA46918 standard; cDNA; 1876 BP.
XX

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```
AC AAA46918;
XX
XX 03-OCT-2000 (first entry)
XX
XX cDNA encoding novel polypeptide PRO347.
XX
XX PRO201; PRO292; PRO327; PRO1265; PRO344; PRO343; PRO347; PRO357;
XX PRO715; PRO1017; PRO1112; PRO509; PRO853; PRO882; tumour cell;
XX tumorigenesis; cancer; neoplastic cell growth; cell proliferation; ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX CDS 123..1490
XX /*tag= a
XX
XX WO200037640-A2.
XX
XX 29-JUN-2000.
XX
XX 16-DEC-1999; 99WO-US30095.
XX
XX 22-DEC-1998; 98US-0113296.
XX 08-MAR-1999; 99WO-US05028.
XX 02-JUN-1999; 99WO-US12252.
XX 01-SEP-1999; 99WO-US20111.
XX 15-SEP-1999; 99WO-US21090.
XX 30-NOV-1999; 99WO-US28313.
XX 30-NOV-1999; 99WO-US28409.
XX 01-DEC-1999; 99WO-US28301.
XX 02-DEC-1999; 99WO-US28565.
XX
XX (GETH ) GENENTECH INC.
XX
XX Botstein D, Goddard A, Gurney AL, Hillan K, Lawrence DA, Roy MA;
XX Wood WI;
XX
XX WPI; 2000-452188/39.
XX P-PSDB; AAY93690.
XX
XX New anti-polypeptide antibody useful in the treatment and diagnosis of
XX neoplastic cell growth and proliferation -
XX
XX Claim 50; Fig 13; 220pp; English.
XX
XX The present sequence encodes a novel human polypeptide. The
XX specification describes novel polypeptides designated PRO201, PRO292,
XX PRO327, PRO1265, PRO344, PRO343, PRO347, PRO357, PRO715, PRO1017,
XX PRO1112, PRO509, PRO853 and PRO882. These genes are amplified in
XX the genome of tumour cells. The polypeptides are believed to contribute
XX to tumorigenesis. The polypeptides are useful target for the
XX identification of certain cancers, and may act as predictors of the
XX prognosis of tumour treatment. Antibodies against these polypeptides
XX are useful in the treatment and diagnosis of neoplastic cell growth
XX and proliferation in mammals.
XX
XX Sequence 1876 BP; 387 A; 568 C; 574 G; 347 T; 0 other;
XX
XX Query Match 100.0%; Score 247; DB 21; Length 1876;
XX Best Local Similarity 100.0%; Pred No. 7.1e-51;
XX Matches 247; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 GAGGTGTGCGCCACCCAGCTGCAGGAGCAGGCTCCGATGCGCGAGCCCTGAACAGGAAG 60
XX
XX 201 GAGGTGTGCGCCACCCAGCTGCAGGAGCAGGCTCCGATGCGCGAGCCCTGAACAGGAAG 260
XX
XX 61 GAGAGTTTCTTCTCTCTCTCCCTGCACACCGCTCGGAGCTGGGTCCAGCCCCCTGCG 120
XX
XX 261 GAGAGTTTCTTCTCTCTCTCCCTGCACACCGCTCGGAGCTGGGTCCAGCCCCCTGCG 320
XX
XX 121 GCTGACATGCGGAGGTGAGCTGGAGTGACAGCTGGCCCACTGGCTCAAGCCAGGGCA 180
XX
XX 321 GCTGACATGCGGAGGTGAGCTGGAGTGACAGCTGGCCCACTGGCTCAAGCCAGGGCA 380
XX
XX 181 GCCTCTGTGGAATCCCAACCCGAGCCTGGCATCCGGCCTGTGGCGCACCTGCAAGTG 240
XX
XX 381 GCCTCTGTGGAATCCCAACCCGAGCCTGGCATCCGGCCTGTGGCGCACCTGCAAGTG 440
XX
XX 241 GGCTGGA 247
XX
XX 441 GGCTGGA 447
XX
XX
XX
XX RESULT 4
XX AAA49561
XX ID AAA49561 standard; cDNA; 1876 BP.
XX
XX AC AAA49561;
XX
XX XX 25-SEP-2000 (first entry)
XX
XX DE Human PRO347 cDNA.
XX
XX KW PRO: membrane bound protein; secreted protein; PRO357; PRO327;
XX PRO243; PRO715; PRO241; PRO233; PRO299; PRO233; PRO344; PRO347;
XX PRO355; PRO353; PRO361; PRO365; transmembrane polypeptide;
XX antibody; screening; detection; inhibition; probe; primer; human;
XX ss.
XX
XX OS Homo sapiens.
XX
XX Key Location/Qualifiers
XX CDS 123..1490
XX /*tag= a
XX /product= PRO347 polypeptide
XX
XX WO200032776-A2.
XX
XX 08-JUN-2000.
XX
XX 01-DEC-1999; 99WO-US28301.
XX
XX 01-DEC-1998; 98WO-US25108.
XX 16-DEC-1998; 98US-0112850.
XX 22-DEC-1998; 98US-0113296.
XX
XX (GETH ) GENENTECH INC.
XX
XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
XX Gerritsen ME, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL;
XX Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;
XX
XX WPI; 2000-412324/35.
XX P-PSDB; AAB01319.
XX
XX New human nucleic acids encoding secreted and transmembrane
XX polypeptides, designated as PRO polypeptides, useful as pharmaceutical
XX and diagnostic agents
XX
XX Claim 2; Fig 19; 187pp; English.
XX
XX New human nucleic acids encoding secreted and transmembrane
XX polypeptides which are designated as PRO polypeptides are described
XX The membrane-bound proteins have various industrial applications,
XX including as pharmaceutical and diagnostic agents. The membrane-bound
XX proteins can also be employed for screening of potential peptide or
XX small molecule inhibitors of the relevant receptor/ligand interaction.
XX Anti-PRO antibodies are useful for the affinity purification of PRO
XX from recombinant cell culture or natural sources.
XX
XX Sequence 1876 BP; 387 A; 568 C; 574 G; 347 T; 0 other;
XX
XX Query Match 100.0%; Score 247; DB 21; Length 1876;
XX Best Local Similarity 100.0%; Pred No. 7.1e-51;
XX Matches 247; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 GAGGTGTGGCCACCCAGCTGCAGAGCAGGCTCCGATGGCGGAGCCCTGAACAGGAAG 60  
DB 201 GAGGTGTGGCCACCCAGCTGCAGAGCAGGCTCCGATGGCGGAGCCCTGAACAGGAAG 260  
QY 61 GAGAGTTTCTTGTCTCTCTCCCTGCACAAACCGCTGCGAGCTGGGTCCAGCCCCCTGGG 120  
DB 261 GAGAGTTTCTTGTCTCTCTCCCTGCACAAACCGCTGCGAGCTGGGTCCAGCCCCCTGGG 320  
QY 121 GCTGACATGGCGGAGCTGGAGTGCAGTGACAGCTGGCCCACTGGCTCAAGCCAGGGCA 180  
DB 321 GCTGACATGGCGGAGCTGGAGTGCAGTGACAGCTGGCCCACTGGCTCAAGCCAGGGCA 380  
QY 181 GCCTCTGTGGAATCCCAACCCGAGCTGGCATCCGGCTGTGGCGACCCCTGCAAGTG 240  
DB 381 GCCTCTGTGGAATCCCAACCCGAGCTGGCATCCGGCTGTGGCGACCCCTGCAAGTG 440  
QY 241 GGCTGGA 247  
DB 441 GGCTGGA 447

## RESULT 5

AAS76343  
ID AAS76343 standard; cDNA; 855 BP.

AAZ50926;

05-JUN-2000 (first entry)

Human Protease and associated protein-9 (PPRG-9) encoding cDNA.

Protease and associated protein-9; PPRG-9; anti-PPRG antibody;  
diagnosis; treatment; cell proliferative disorder; cancer; cirrhosis;  
arteriosclerosis; atherosclerosis; bursitis; hepatitis; immune disorder;  
AIDS; Addison's disease; adult respiratory distress syndrome; allergy;  
ankylosing spondylitis; amyloidosis; cytostatic; antiarteriosclerotic;  
hepatotrophic; antiinflammatory; virucide; antipsoriatic; anti-HIV;  
antiallergic; immunosuppressive; antidiabetic; antianaemic;  
neuroprotective; human; ss.

Homo sapiens.

Key Location/Qualifiers

233..733  
CDS /tag= a  
/product= "Human PPRG-9"  
sig\_peptide 233..310  
mat\_peptide /tag= b  
311..730  
misc\_binding /product= "Mature PPRG-9"  
326..370  
/tag= d  
/bound\_moiety= "Probe or Primer"

WO200009709-A2.

24-FEB-2000.

06-AUG-1999; 99WO-US17818.

10-AUG-1998; 98US-0096114.

11-FEB-1999; 99US-0119768.

(INCY-) INCYTE PHARM INC.

Bandman O, Hillman JL, Baughn MR, Azimzai Y, Guegler KJ;  
Corley NC, Yue H, Tang YT, Reddy R, Patterson C, Au-Young J;  
Shih LL, Lu DM;

WPI; 2000-224346/19.

P-PSDB; AAY70015.

PT New human proteases, useful for diagnosis, treatment and prevention of  
cell proliferative disorders such as atherosclerosis -  
XX  
PS Claim 9; Page 105; 114pp; English.

XX The present sequence is a cDNA identified in Incyte clone 998626  
derived from KIDNUT01 cDNA library. It encodes human protease and  
associated protein-9 (PPRG-9), which is expressed in urologic  
CC and musculoskeletal tissues. Anti-PPRG antibodies can be used  
CC as therapeutic antagonists, reagents for diagnosis and monitoring  
CC diseases and for isolating PPRG. PPRG nucleotide sequence can be used  
CC as probe or primer for diagnosis and monitoring of PPRG-related  
CC diseases and gene mapping. PPRG can be used in the treatment of cell  
CC proliferative disorders like cancer, arteriosclerosis, atherosclerosis,  
CC bursitis, cirrhosis and hepatitis, and immune disorders like AIDS,  
CC Addison's disease, adult respiratory distress syndrome, allergies,  
CC ankylosing spondylitis and amyloidosis.

XX Sequence 855 BP; 152 A; 283 C; 257 G; 162 T; 1 other;

Query Match 99.4%; Score 245.4; DB 21; Length 855;

Best Local Similarity 99.6%; Pred. No. 1.6e-50;

Matches 246; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAGGTGTGGCCACCCAGCTGCAGAGCAGGCTCCGATGGCGGAGCCCTGAACAGGAAG 60

DB 311 GAGGTGTGGCCACCCAGCTGCAGAGCAGGCTCCGATGGCGGAGCCCTGAACAGGAAG 370

QY 61 GAGAGTTTCTTGTCTCTCTCCCTGCACAAACCGCTGCGAGCTGGGTCCAGCCCCCTGGG 120

DB 371 GAGAGTTTCTTGTCTCTCTCCCTGCACAAACCGCTGCGAGCTGGGTCCAGCCCCCTGGG 430

QY 121 GCTGACATGGCGGAGCTGGAGTGCAGTGACAGCTGGCCCACTGGCTCAAGCCAGGGCA 180

DB 431 GCTGACATGGCGGAGCTGGAGTGCAGTGACAGCTGGCCCACTGGCTCAAGCCAGGGCA 490

QY 191 GCCTCTGTGGAATCCCAACCCGAGCTGGCATCCGGCTGTGGCGACCCCTGCAAGTG 240

DB 491 GCCTCTGTGGAATCCCAACCCGAGCTGGCATCCGGCTGTGGCGACCCCTGCAAGTG 550

QY 241 GGCTGGA 247

DB 551 GGCTGGA 557

## RESULT 6

AAS76343

ID AAS76343 standard; cDNA; 906 BP.

XX AAS76343;

XX 13-FEB-2002 (first entry)

XX DNA encoding novel human diagnostic protein #12147.

XX Human; chromosome mapping; gene mapping; gene therapy; forensic;  
XX food supplement; medical imaging; diagnostic; genetic disorder; ss.

XX Homo sapiens.

XX WO200175067-A2.

XX 11-OCT-2001.

XX 30-MAR-2001; 2001WO-US08631.

XX 31-MAR-2000; 2000US-0540217.

XX 23-AUG-2000; 2000US-0649167.

XX (HYSE-) HYSEQ INC.

XX Drmanac RT, Liu C, Tang YT;

XX









CC Typi



XX PS Example 11; SEQ ID NO 1693; 1380pp + sequence listing; English.  
XX PS  
CC The invention relates to primers for synthesizing full length cDNA  
CC clones. 830 cDNA molecules encoding a human protein have been  
CC isolated and nucleotide sequences of 5'- and 3'-ends of the cDNA  
CC molecules have been determined. Primers for synthesizing the full length  
CC cDNA are useful for clarifying the function of the protein encoded by  
CC the cDNA. The full length clones were obtained by construction of full  
CC length enriched cDNA libraries that were synthesised by the oligo-capping  
CC method. The primers enable the production of the full length cDNA easily  
CC without any special methods. The present sequence was used as the  
CC representative sequence from a human clone which was used in  
CC homology searches to identify the clone.  
CC Note: The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in CD-ROM format directly from EPO.  
XX SQ Sequence 512 BP; 94 A; 166 C; 167 G; 82 T; 3 other;  
  
Query Match 98.1%; Score 242.2; DB 22; Length 512;  
Best Local Similarity 98.8%; Pred. No. 8.8e-50;  
Matches 244; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 1 GAGGTGTGGCCACCCAGCTGCAGAGCAGGCTCCGATGGCCGGAGCCCTGAACAGGAAG 60  
DB 152 GAGGTGTGGCCACCCAGCTGCAGAGCAGGCTCCGATGGCCGGAGCCCTGAACAGGAAG 211  
  
QY 61 GAGAGTTTCTTGCTCTCCCTGCACAAACCGCTCGCGAGCTGGGTCCAGCCCCCTGCG 120  
DB 212 GAGAGTTTCTTGCTCTCCCTGCACAAACCGCTCGCGAGCTGGGTCCAGCCCCCTGCG 271  
  
QY 121 GCTGACATGGCGAGGCTGGAGTGCAGAGCTGGCCCAACTGGCTCAAGCCAGGGCA 180  
DB 272 GCTGACATGGCGAGGCTGGAGTGCAGAGCTGGCCCAACTGGCTCAAGCCAGGGCA 331  
  
QY 181 GCCCTCTGTGGAATCCCAACCCCGAGCTGGCATCCGGCCTGTGGCCACCCCTGCAAGTG 240  
DB 332 GCCCTCTGTGGAATCCCAACCCCGAGCTGGCATCCGGCCTGTGGCCACCCCTGCAAGTG 391  
  
QY 241 GGCTGGA 247  
DB 392 GGCTGGA 398  
  
RESULT 15  
AAK94246  
ID AAK94246 standard; cDNA; 1786 BP.  
AC AAK94246;  
XX  
XX 06-NOV-2001 (first entry)  
XX Human full-length cDNA, SEQ ID NO: 2850.  
XX Human; full length cDNA; cDNA synthesis; oligo-capping; ss.  
XX Homo sapiens.  
XX OS  
XX PN EP1130094-A2.  
XX PD 05-SEP-2001.  
XX PF 07-JUL-2000; 2000EP-0114089.  
XX PR 08-JUL-1999; 99JP-0194486.  
XX PR 11-JAN-2000; 2000JP-0118774.  
XX PR 02-MAY-2000; 2000JP-0183765.  
XX (HELI-) HELIX RES INST.  
XX Ota T, Nishikawa T, Isogai T, Hayashi K, Ishii S, Kawai Y;  
PI Wakamatsu A, Sugiyama T, Nagai K, Kojima S, Otsuki T, Koga H;  
XX

DR WPI; 2001-524255/58.  
DR P-PSDB; AAM93326.  
XX  
PT 830 Primers useful for synthesizing full length cDNA clones and their  
PT use in genetic manipulation -  
XX Claim 8; SEQ ID NO 2850; 1380pp + sequence listing; English.  
XX The invention relates to primers for synthesizing full length cDNA  
CC clones. 830 cDNA molecules encoding a human protein have been  
CC isolated and nucleotide sequences of 5'- and 3'-ends of the cDNA  
CC molecules have been determined. Primers for synthesizing the full length  
CC cDNA are useful for clarifying the function of the protein encoded by  
CC the cDNA. The full length clones were obtained by construction of full  
CC length enriched cDNA libraries that were synthesised by the oligo-capping  
CC method. The primers enable the production of the full length cDNA easily  
CC without any special methods. The present sequence is a full length  
CC human cDNA of the invention.  
CC Note: The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in CD-ROM format directly from EPO.  
XX SQ Sequence 1786 BP; 361 A; 548 C; 553 G; 324 T; 0 other;  
  
Query Match 98.1%; Score 242.2; DB 22; Length 1786;  
Best Local Similarity 98.8%; Pred. No. 1e-49;  
Matches 244; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 1 GAGGTGTGGCCACCCAGCTGCAGAGCAGGCTCCGATGGCCGGAGCCCTGAACAGGAAG 60  
DB 151 GAGGTGTGGCCACCCAGCTGCAGAGCAGGCTCCGATGGCCGGAGCCCTGAACAGGAAG 210  
  
QY 61 GAGAGTTTCTTGCTCTCCCTGCACAAACCGCTCGCGAGCTGGGTCCAGCCCCCTGCG 120  
DB 211 GAGAGTTTCTTGCTCTCCCTGCACAAACCGCTCGCGAGCTGGGTCCAGCCCCCTGCG 270  
  
QY 121 GCTGACATGGCGAGGCTGGAGTGCAGAGCTGGCCCAACTGGCTCAAGCCAGGGCA 180  
DB 271 GCTGACATGGCGAGGCTGGAGTGCAGAGCTGGCCCAACTGGCTCAAGCCAGGGCA 330  
  
QY 181 GCCCTCTGTGGAATCCCAACCCCGAGCTGGCATCCGGCCTGTGGCCACCCCTGCAAGTG 240  
DB 331 GCCCTCTGTGGAATCCCAACCCCGAGCTGGCATCCGGCCTGTGGCCACCCCTGCAAGTG 390  
  
QY 241 GGCTGGA 247  
DB 391 GGCTGGA 397

Search completed: December 28, 2002, 17:01:50  
Job time : 54.913 secs







|    |      |   |      |
|----|------|---|------|
| Qy | 1141 | TCCTTCGCTGGGCCACAGGGGAGCACCAGGCGCTTCACAGGCTTTGCCCTTTGGCGAGCCT | 1200 |
|    |      |   |      |
|    |      |   |      |
| Db | 1263 | TCCTTCGCTGGGCCACAGGGGAGCACCAGGCGCTTCACAGGCTTTGCCCTTTGGCGAGCCT | 1322 |
|    |      |   |      |
|    |      |   |      |
| Qy | 1201 | GACAAACACGGGCTGGTGTGGCTGAGTCTGCCATGGGGTTTGGCAACTTCGCTGGAGCTG  | 1260 |
|    |      |   |      |
|    |      |   |      |
| Db | 1323 | GACAAACACGGGCTGGTGTGGCTGAGTCTGCCATGGGGTTTGGCAACTTCGCTGGAGCTG  | 1382 |
|    |      |   |      |
|    |      |   |      |
| Qy | 1261 | CAGGCTTCAGCTGCCTTCAACTTGGAAACACACGCGCTGCAAAACCCGAAACCGTTACATC | 1320 |
|    |      |   |      |
| Db | 1383 | CAGGCTTCAGCTGCCTTCAACTTGGAAACACACGCGCTGCAAAACCCGAAACCGTTACATC | 1442 |
|    |      |   |      |
| Qy | 1321 | TGCCAG  | 1326 |
|    |      |   |      |
| Db | 1443 | TGCCAG  | 1448 |

## RESULT 2

```

US-09-944-403-49
: Sequence 49, Application US/09944403
: Patent No. US20020165143A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin
: APPLICANT: Botstein, David
: APPLICANT: Eaton, Dan
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Filvarsoff, Ellen
: APPLICANT: Geritsen, Mary
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul
: APPLICANT: Grimaldi, Christopher
: APPLICANT: Gurney, Austen
: APPLICANT: Hillan, Kenneth
: APPLICANT: Kljavin, Ivar
: APPLICANT: Napier, Mary
: APPLICANT: Roy, Margaret
: APPLICANT: Tumas, Daniel
: APPLICANT: Wood, William
: TITLE OF INVENTION: SECRETED AND TR
: FILE REFERENCE: P2548P1C1
: CURRENT APPLICATION NUMBER: US/09/9
: PRIOR FILING DATE: 2001-09-26
: PRIOR APPLICATION NUMBER: 09/866,02
: PRIOR FILING DATE: 2001-05-25
: PRIOR APPLICATION NUMBER: 60/067,41
: PRIOR FILING DATE: December 3, 1997
: PRIOR APPLICATION NUMBER: 60/069,33
: PRIOR FILING DATE: December 11, 199
: PRIOR APPLICATION NUMBER: 60/069335
: PRIOR FILING DATE: December 11, 199
: PRIOR APPLICATION NUMBER: 60/069,27
: PRIOR FILING DATE: December 11, 199
: PRIOR APPLICATION NUMBER: 60/069,42
: PRIOR FILING DATE: December 12, 199
: PRIOR APPLICATION NUMBER: 60/069,69
: PRIOR FILING DATE: December 16, 199
: PRIOR APPLICATION NUMBER: 60/069,69
: PRIOR FILING DATE: December 16, 199
: PRIOR APPLICATION NUMBER: 60/069,70
: PRIOR FILING DATE: December 16, 199
: PRIOR APPLICATION NUMBER: 60/069,87
: PRIOR FILING DATE: December 17, 199
: PRIOR APPLICATION NUMBER: 60/069,87
: PRIOR FILING DATE: December 17, 199
: PRIOR APPLICATION NUMBER: 60/068,01
: PRIOR FILING DATE: December 18, 199
: PRIOR APPLICATION NUMBER: 60/070,44
: PRIOR FILING DATE: January 5, 1998
: PRIOR APPLICATION NUMBER: 60/074,08
: PRIOR FILING DATE: February 9, 1998
: PRIOR APPLICATION NUMBER: 60/074,09

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|    |      |   |      |
|----|------|---|------|
| QY | 241  | CTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCAAACCCGAGCCTGGCATTCGGCCGTG    | 300  |
| DB | 363  | CTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCAAACCCGAGCCTGGCATTCGGCCGTG    | 422  |
| QY | 301  | TGGCGCACCCCTGCAAGTGGGCTGGAACATGCAGCTGTCGCCCGGGGCTTGGCGTCCCTTT   | 360  |
| DB | 423  | TGGCGCACCCCTGCAAGTGGGCTGGAACATGCAGCTGTCGCCCGGGGCTTGGCGTCCCTTT   | 482  |
| QY | 361  | GTTGAAGTGGTCAAGCCTATGTTTGCAGAGGGGAGCGGTACAGCCAGCGCGCAGAGAG      | 420  |
| DB | 483  | GTTGAAGTGGTCAAGCCTATGTTTGCAGAGGGGAGCGGTACAGCCAGCGCGCAGAGAG      | 542  |
| QY | 421  | TGTGCTCGCAACGCAACCTGCACCCACTACACGAGCTGCTGTGTGGCCACACTCAAGCCAG   | 480  |
| DB | 543  | TGTGCTCGCAACGCAACCTGCACCCACTACACGAGCTGCTGTGTGGCCACACTCAAGCCAG   | 602  |
| QY | 481  | CTGGGCTGTGGCGGCACCTGTGCTCTGCAGGCCACAGACAGCATAGAAGCCTTTGCTGT     | 540  |
| DB | 603  | CTGGGCTGTGGCGGCACCTGTGCTCTGCAGGCCACAGACAGCATAGAAGCCTTTGCTGT     | 662  |
| QY | 541  | GCCTACTCCCCGGAGGCAACTGGGAGGTCAACGGGAAGACAATCATCCCTATAGAAG       | 600  |
| DB | 663  | GCCTACTCCCCGGAGGCAACTGGGAGGTCAACGGGAAGACAATCATCCCTATAGAAG       | 722  |
| QY | 601  | GGTGCTGGTGTGCTCTGCACAGCCAGTGTCTCAGCGTCTTCAAAGCCTTGGGACCAT       | 660  |
| DB | 723  | GGTGCTGGTGTGCTCTGCACAGCCAGTGTCTCAGCGTCTTCAAAGCCTTGGGACCAT       | 782  |
| QY | 661  | GCAGGGGGGCTCTGTGAGGTCCCCAGGAATCCTTGTGCATGAGCTGCCAGAACCATGGA     | 720  |
| DB | 783  | GCAGGGGGGCTCTGTGAGSTCCCCAGGAATCCTTGTGCATGAGCTGCCAGAACCATGGA     | 842  |
| QY | 721  | CGTCTCAACATCAGCACTGCGCATGTGCCACTGTGCCCTTGGCTACAGGGGAGATCTGC     | 780  |
| DB | 843  | CGTCTCAACATCAGCACTGCGCATGTGCCACTGTGCCCTTGGCTACAGGGGAGATCTGC     | 902  |
| QY | 781  | CAAGTGAGTGCAGCTCGAGTGTGCAGCGCCGTTCCGGGAGGAGGAGTCTCGTGC          | 840  |
| DB | 903  | CAAGTGAGTGCAGCTCGAGTGTGCAGCGCCGTTCCGGGAGGAGGAGTCTCGTGC          | 962  |
| QY | 841  | GTCTGTGACATCGGCTACGGGGGAGCCAGTGTGCCACCAAGGTGCATTTCCCTTCCAC      | 900  |
| DB | 963  | GTCTGTGACATCGGCTACGGGGGAGCCAGTGTGCCACCAAGGTGCATTTCCCTTCCAC      | 1022 |
| QY | 901  | ACCTGTGACCTGAGGATCGACGGAGACTGCTTCATGTGTCTTCAGAGCGCAGACCTAT      | 960  |
| DB | 1023 | ACCTGTGACCTGAGGATCGACGGAGACTGCTTCATGGTGTCTTCAGAGCGCAGACCTAT     | 1082 |
| QY | 961  | TACAGAGCCAGGATCAAAATGTCAGAGGAAGCGGGTGTCTGGCCACAGATCAAGAGCCAG    | 1020 |
| DB | 1083 | TACAGAGCCAGGATGAAATGTCAGAGGAAGCGGGTGTCTGGCCACAGATCAAGAGCCAG     | 1142 |
| QY | 1021 | AAAGTGCAGGACATCCTCGCCCTTCTATCTGGCCGCGCTGGAGCCACCACGAGGTGACT     | 1080 |
| DB | 1143 | AAAGTGCAGGACATCCTCGCCCTTCTATCTGGCCGCGCTGGAGCCACCACGAGGTGACT     | 1202 |
| QY | 1081 | GACAGTGACTTCGAGACAGGAACCTTCGGATTCGGGCTCACCTACAAGACCGGCCAAGGAC   | 1140 |
| DB | 1203 | GACAGTGACTTCGAGACAGGAACCTTCGGATTCGGGCTCACCTACAAGACCGGCCAAGGAC   | 1262 |
| QY | 1141 | TCCTTTCGCTGGGCCACAGGGGAGCACAGGCCCTTACCAGTTCCTTGGCCCTTGGGCGAGCCT | 1200 |
| DB | 1263 | TCCTTTCGCTGGGCCACAGGGGAGCACAGGCCCTTACCAGTTCCTTGGCCCTTGGGCGAGCCT | 1322 |
| QY | 1201 | GACAACACAGGGCTGGTGTGGCTGAGTGTGTCATGGGGTTCCTGGCAACTTCGCTGGAGCTG  | 1260 |
| DB | 1323 | GACAACACAGGGCTGGTGTGGCTGAGTGTGTCATGGGGTTCCTGGCAACTTCGCTGGAGCTG  | 1382 |
| QY | 1261 | CAGGCTTCAGCTTCGCTTCAACTGGAAACGACCGCTGCAAAACCGGAAACCGTTACATC     | 1320 |
| DB | 1383 | CAGGCTTCAGCTTCGCTTCAACTGGAAACGACCGCTGCAAAACCGGAAACCGTTACATC     | 1442 |

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Qy 1321 TGCCAG 1326
      |||||
Db 1443 TGCCAG 1448

RESULT 3
US-09-944-896-49
; Sequence 49, Application US/09944896
; Patent No. US20020168715A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein,David
; APPLICANT: Eaton,Dan
; APPLICANT: Ferrara,Napoleone
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Gerritsen,Mary
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul
; APPLICANT: Grimaldi,Christopher
; APPLICANT: Gurney,Austin
; APPLICANT: Hillan,Kenneth
; APPLICANT: Kljavin,Ivar
; APPLICANT: Napier,Mary
; APPLICANT: Roy,Margaret
; APPLICANT: Tumas,Daniel
; APPLICANT: Wood,William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRAL
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,896
; CURRENT FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,236
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998

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; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020168715A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020168715A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 49
; LENGTH: 1876
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-944-896-49

Query Match 100.0%; Score 1326; DB 9; Length 1876;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1326; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGTCGATCCAGAGACCTCCCTGGCGGGGGGATCTCTGGCTGTGCTCTCCCTGGCCCTC 60
Db 123 ATGTCGATCCAGAGACCTCCCTGGCGGGGGGATCTCTGGCTGTGCTCTCCCTGGCCCTC 182
Qy 61 CTTGGCACCACCTGGCGAGAGGTGTGGCCACCCAGCTGCAGAGAGAGGCTCCGATGGCC 120
Db 183 CTTGGCACCACCTGGCGAGAGGTGTGGCCACCCAGCTGCAGAGAGAGGCTCCGATGGCC 242
Qy 121 GGAGCCCTGAACAGGAAGAGAGTTCTTGTCTCTCTCCCTGCACAAACCCCTGGCGAGC 180
Db 243 GGAGCCCTGAACAGGAAGAGAGTTCTTGTCTCTCTCCCTGCACAAACCCCTGGCGAGC 302
Qy 181 TGGTCCAGCCCTCGGCTGCATGCGAGGCTGGAGTGGAGTGCAGAGCTGGGCCAA 240
Db 303 TGGTCCAGCCCTCGGCTGCATGCGAGGCTGGAGTGGAGTGCAGAGCTGGGCCAA 362
Qy 241 CTGGCTCAAGCCAGGCGACCCCTCTGTGGAATCCCAACCCAGCCCTGGCATCCGGCCTG 300
Db 363 CTGGCTCAAGCCAGGCGACCCCTCTGTGGAATCCCAACCCAGCCCTGGCATCCGGCCTG 422
Qy 301 TGGCGCACCTCAAGTGGGCTGGAAATGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360
Db 423 TGGCGCACCTCAAGTGGGCTGGAAATGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCT 482
Qy 361 GTTGAAGTGGTCAAGCTATGGTTTTCAGAGGGGCGAGCTGACAGCCAGCGGCGAGAGAG 420
Db 483 GTTGAAGTGGTCAAGCTATGGTTTTCAGAGGGGCGAGCTGACAGCCAGCGGCGAGAGAG 542
Qy 421 TGTGCTGCAAGCCACCTGACCCACTACAGCAGCTGCTGTGGGCCACTCAAGCCAG 480

Db 543 TGTGCTGCAAGCCACCTGCACCCACTTACAGCAGCTCGTGTGGGCCACCTCAAGCCAG 602
Qy 481 CTGGGCTGTGGCGGCACCTGTGCTCTGCAGCCAGACGATAGAGCCCTTTCTCTGT 540
Db 603 CTGGGCTGTGGCGGCACCTGTGCTCTGCAGCCAGACGATAGAGCCCTTTCTCTGT 562
Qy 541 GCCTACTCCCGCGGAGGCACTGGGAGGTCAACGGGAAGACAATCATCCCTTATAAGAG 600
Db 663 GCCTACTCCCGCGGAGGCACTGGGAGGTCAACGGGAAGACAATCATCCCTTATAAGAG 722
Qy 601 GGTGCTGTGTGCTCTGTGCAGAGCAGTGTCTCAGGCTGCTTCAAGCCCTGGGACCAT 560
Db 723 GGTGCTGTGTGCTCTGTGCAGAGCAGTGTCTCAGGCTGCTTCAAGCCCTGGGACCAT 782
Qy 661 GCAGGGGGGCTGTGAGGTCCCGAGGAATCCTTGTCCCATGAGCTGCCAGAACCATGA 720
Db 783 GCAGGGGGGCTGTGAGGTCCCGAGGAATCCTTGTCCCATGAGCTGCCAGAACCATGA 842
Qy 721 CGTCTCAACATCAGCAGCTGCCACTGTCCACTGTCCCTCGCTACACGGGCAGATATCG 780
Db 843 CGTCTCAACATCAGCAGCTGCCACTGTCCACTGTCCCTCGCTACACGGGCAGATATCG 902
Qy 781 CAAGTGAAGTGCAGCCTGTGCTGTGCAGCGCCGGTTCGGGAGAGAGTGTCTGCTGC 840
Db 903 CAAGTGAAGTGCAGCCTGTGCTGTGCAGCGCCGGTTCGGGAGAGAGTGTCTGCTGC 962
Qy 841 GTCTGTGACATCGGCTAGGGGGAGCCAGTGTGCCACCAAGGTGCATTTCCCTTCCAC 900
Db 963 GTCTGTGACATCGGCTAGGGGGAGCCAGTGTGCCACCAAGGTGCATTTCCCTTCCAC 1022
Qy 901 ACCTGTGACCTGAGGATCGAGGAGACTGCTTTCATGTTCTTCAGAGGAGACACCTAT 960
Db 1023 ACCTGTGACCTGAGGATCGAGGAGACTGCTTTCATGTTCTTCAGAGGAGACACCTAT 1082
Qy 961 TACAGAGCCAGGATGAATGTCAAGAGAAAGCGGGGTGCTGGCCAGATCAAGAGCCAG 1020
Db 1083 TACAGAGCCAGGATGAATGTCAAGAGAAAGCGGGGTGCTGGCCAGATCAAGAGCCAG 1142
Qy 1021 AAAGTGAAGGACATCTCGCTTCTATCTGGCCCGCTTGGAGACCAACAGAGTGACT 1080
Db 1143 AAAGTGAAGGACATCTCGCTTCTATCTGGCCCGCTTGGAGACCAACAGAGTGACT 1202
Qy 1081 GACAGTGACTTCGAGACAGGAACTTCTGGATCGGGCTCACCTACAGACCCGCCAAGGAC 1140
Db 1203 GACAGTGACTTCGAGACAGGAACTTCTGGATCGGGCTCACCTACAGACCCGCCAAGGAC 1262
Qy 1141 TCCTTCGCTGGGCGACAGGGAGACACAGGCTTTCACAGTTTTCCTTTGGGCGACCT 1200
Db 1263 TCCTTCGCTGGGCGACAGGGAGACACAGGCTTTCACAGTTTTCCTTTGGGCGACCT 1322
Qy 1201 GACAACACCGGCTGGTGTGCTGAGTGTGCTGATGGGCTTTGGCAACTGCGTGGAGCTG 1260
Db 1323 GACAACACCGGCTGGTGTGCTGAGTGTGCTGATGGGCTTTGGCAACTGCGTGGAGCTG 1382
Qy 1261 CAGGCTTCAGCTGCTTCAACTGGAACACAGCCAGCGCTGCAAAACCCGAAACCGTTACATC 1320
Db 1383 CAGGCTTCAGCTGCTTCAACTGGAACACAGCCAGCGCTGCAAAACCCGAAACCGTTACATC 1442
Qy 1321 TGCCAG 1326
Db 1443 TGCCAG 1448

RESULT 4
US-09-944-944-49
; Sequence 49, Application US/09944944
; Patent No. US20020173463A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Boiteau, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen



|    |      |  |      |
|----|------|--|------|
| QY | 661  | GCAGGGGGCTCTGTGAGGTCCCCAGGAATCTTGTGCGATGAGCTGCCAGAACCATGGA   | 720  |
| Db | 783  | GCAGGGGGCTCTGTGAGGTCCCCAGGAATCTTGTGCGATGAGCTGCCAGAACCATGGA   | 842  |
| QY | 721  | CGTCTCAACATCAGCACTGCCACTGCCACTGTCCCCCTGGCTACACGGCGAGATACTGC  | 780  |
| Db | 843  | CGTCTCAACATCAGCACTGCCACTGCCACTGTCCCCCTGGCTACACGGCGAGATACTGC  | 902  |
| QY | 781  | CAAGTAGAGTGCAGCCTGCAGTGTGTGCACGGCCGGTTCCGGGAGGAGAGTGTCTGCTGC | 840  |
| Db | 903  | CAAGTAGAGTGCAGCCTGCAGTGTGTGCACGGCCGGTTCCGGGAGGAGAGTGTCTGCTGC | 962  |
| QY | 841  | GTCTGTCAATCGGCTACGGGGAGCCCAAGTGTGCCACCAAGGTGCATTTTCCCTTCCAC  | 900  |
| Db | 963  | GTCTGTCAATCGGCTACGGGGAGCCCAAGTGTGCCACCAAGGTGCATTTTCCCTTCCAC  | 1022 |
| QY | 901  | ACCTGTGACCTGAGGATCGACGAGACTGCTTCATGTGTCTTCAGAGCGACACCTAT     | 960  |
| Db | 1023 | ACCTGTGACCTGAGGATCGAOGAGACTGCTTCATGTGTCTTCAGAGCGACACCTAT     | 1082 |
| QY | 961  | TACAGAGCCAGATGAATGTCCAGAGGAAGCGGGGTGCTGGCCCAAGATCAAGAGCCAG   | 1020 |
| Db | 1083 | TACAGAGCCAGATGAATGTCCAGAGGAAGCGGGGTGCTGGCCCAAGATCAAGAGCCAG   | 1142 |
| QY | 1021 | AAAGTCAGGACATCTCGCCCTTCATCTGGCGCCCTGGAGACCAACCAAGAGGTGACT    | 1080 |
| Db | 1143 | AAAGTCAGGACATCTCGCCCTTCATCTGGCGCCCTGGAGACCAACCAAGAGGTGACT    | 1202 |
| QY | 1081 | GACAGTGACTTCGAGACAGGAACCTTCGGATCGGGGTCACTACAAGACCGCCAGGAC    | 1140 |
| Db | 1203 | GACAGTGACTTCGAGACAGGAACCTTCGGATCGGGGTCACTACAAGACCGCCAGGAC    | 1262 |
| QY | 1141 | TGCTTCCGCTGGCCACAGGGGACCAAGCCCTTCACCAAGTTTGTGCTTTGGGCAAGCCT  | 1200 |
| Db | 1263 | TGCTTCCGCTGGCCACAGGGGACCAAGCCCTTCACCAAGTTTGTGCTTTGGGCAAGCCT  | 1322 |
| QY | 1201 | GACAACCAAGGCTGGTGTGGCTGAGTGTGCCATGGGGTTTGGCAACTTCGTTGGAGCTG  | 1260 |
| Db | 1323 | GACAACCAAGGCTGGTGTGGCTGAGTGTGCCATGGGGTTTGGCAACTTCGTTGGAGCTG  | 1382 |
| QY | 1261 | CAGGCTTCAGCTGCTTCAACTGGAACGACCAAGCGGTGCAAAACCGGAAACCTTTACATC | 1320 |
| Db | 1383 | CAGGCTTCAGCTGCTTCAACTGGAACGACCAAGCGGTGCAAAACCGGAAACCTTTACATC | 1442 |
| QY | 1321 | TGCCAG   | 1326 |
| Db | 1443 | TGCCAG   | 1448 |

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RESULT 5
US - 866-028-49
; Sequence 49, Application US/09866028
; Patent No. US2020058309A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Bostein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Flivarooff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRA
; TITLE OF INVENTION: ACIDS ENCODING

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|---|-----|---|-----|--|--|--|--|--|--|
| ; FILE REFERENCE: P2548P1C1                                     |     |   |     |  |  |  |  |  |  |
| ; CURRENT APPLICATION NUMBER: US/09/866,028                     |     |   |     |  |  |  |  |  |  |
| ; CURRENT FILING DATE: 2001-05-25                               |     |   |     |  |  |  |  |  |  |
| ; Prior application data removed - consult PALM or file wrapper |     |   |     |  |  |  |  |  |  |
| ; NUMBER OF SEQ ID NOS: 120                                     |     |   |     |  |  |  |  |  |  |
| ; SEQ ID NO 49  |     |   |     |  |  |  |  |  |  |
| ; LENGTH: 1876  |     |   |     |  |  |  |  |  |  |
| ; TYPE: DNA   |     |   |     |  |  |  |  |  |  |
| ; ORGANISM: Homo Sapien   |     |   |     |  |  |  |  |  |  |
| US-09-866-028-49  |     |   |     |  |  |  |  |  |  |
| Query Match 100.0%; Score 1326; DB 10; Length 1876;             |     |   |     |  |  |  |  |  |  |
| Best Local Similarity 100.0%; Pred. No. 0;                      |     |   |     |  |  |  |  |  |  |
| Matches 1326; Conservative 0; Mismatches 0; Indels 0; Gaps      |     |   |     |  |  |  |  |  |  |
| QY  | 1   | ATGTCATCCAGAGACCTCCCTCGCGGGGGGCATCTCCTGGCTGTGCTCTGGCCCTC    | 182 |  |  |  |  |  |  |
| DB  | 123 | ATGTCATCCAGAGACCTCCCTCGCGGGGGGCATCTCCTGGCTGTGCTCTGGCCCTC    | 182 |  |  |  |  |  |  |
| QY  | 61  | CTTGGCACCACCTGGCAGAGGTGTGGCCACCCAGCTGCGAGGAGGCTCCGATGGCC    | 120 |  |  |  |  |  |  |
| DB  | 183 | CTTGGCACCACCTGGCAGAGGTGTGGCCACCCAGCTGCGAGGAGGCTCCGATGGCC    | 242 |  |  |  |  |  |  |
| QY  | 121 | GGAGCCCTGAACAGAGAGGAGATTCTTGTCTCTCTCCCTGSCAACCGCTGCGCAGC    | 180 |  |  |  |  |  |  |
| DB  | 243 | GGAGCCCTGAACAGAGAGGAGATTCTTGTCTCTCTCCCTGSCAACCGCTGCGCAGC    | 302 |  |  |  |  |  |  |
| QY  | 181 | TGGGTCAGCCCTCGGGCTGACATGCGGAGGCTGGACTGGAGTGACAGCTTGSCCAA    | 240 |  |  |  |  |  |  |
| DB  | 303 | TGGGTCAGCCCTCGGGCTGACATGCGGAGGCTGGACTGGAGTGACAGCTTGSCCAA    | 362 |  |  |  |  |  |  |
| QY  | 241 | CTGGCTCAAGCCAGGGCAGCCCTCTGTGGAATCCACCCCGAGCCTGGCATCCGGCTG   | 300 |  |  |  |  |  |  |
| DB  | 363 | CTGGCTCAAGCCAGGGCAGCCCTCTGTGGAATCCACCCCGAGCCTGGCATCCGGCTG   | 422 |  |  |  |  |  |  |
| QY  | 301 | TGGCGCACCTGCAAGTGGGCTGGAACATGCAGCTGTGCCCGGGGCTTGGCGTCTTT    | 360 |  |  |  |  |  |  |
| DB  | 423 | TGGCGCACCTGCAAGTGGGCTGGAACATGCAGCTGTGCCCGGGGCTTGGCGTCTTT    | 482 |  |  |  |  |  |  |
| QY  | 361 | GTTGAAGTGTGAGCCTATGTTTTCAGAGGGGAGCGGTACAGCCAGCGGCGAGGAG     | 420 |  |  |  |  |  |  |
| DB  | 483 | GTTGAAGTGTGAGCCTATGTTTTCAGAGGGGAGCGGTACAGCCAGCGGCGAGGAG     | 542 |  |  |  |  |  |  |
| QY  | 421 | TGTGCTGCGAACGCCACCTGACCCCACTACACGAGCTCGTGTGGGCCACCTCAAGCCAG | 480 |  |  |  |  |  |  |
| DB  | 543 | TGTGCTGCGAACGCCACCTGACCCCACTACACGAGCTCGTGTGGGCCACCTCAAGCCAG | 602 |  |  |  |  |  |  |
| QY  | 481 | CTGGGCTGTGGGGGACCTGTCTCTGAGGCCAGACGATAGAGGCTTTGTCTGT        | 540 |  |  |  |  |  |  |
| DB  | 603 | CTGGGCTGTGGGGGACCTGTCTCTGAGGCCAGACGATAGAGGCTTTGTCTGT        | 662 |  |  |  |  |  |  |
| QY  | 541 | GCCCTACTCCCGGGAGCACTGGGAGGTCAACGGGAAGACAATCATCCCTATAAAG     | 600 |  |  |  |  |  |  |
| DB  | 663 | GCCCTACTCCCGGGAGCACTGGGAGGTCAACGGGAAGACAATCATCCCTATAAAG     | 722 |  |  |  |  |  |  |
| QY  | 601 | GTTGCTGTGTGCTCTGCACAGCCAGTGTCTAGGCTGCTTCAAGGCTGGGACCAT      | 660 |  |  |  |  |  |  |
| DB  | 723 | GTTGCTGTGTGCTCTGCACAGCCAGTGTCTAGGCTGCTTCAAGGCTGGGACCAT      | 782 |  |  |  |  |  |  |
| QY  | 661 | GCAGGGGGGCTGTGAGTCCCCCAGGAATCTTGTGCGATGAGCTGCCAGAACCATGGA   | 720 |  |  |  |  |  |  |
| DB  | 783 | GCAGGGGGGCTGTGAGTCCCCCAGGAATCTTGTGCGATGAGCTGCCAGAACCATGGA   | 842 |  |  |  |  |  |  |
| QY  | 721 | CGTCTCAACATCAGCACCTGCCACTGCCACTGTCCCTTGGCTTACAGGGCAGATACTGC | 780 |  |  |  |  |  |  |
| DB  | 843 | CGTCTCAACATCAGCACCTGCCACTGCCACTGTCCCTTGGCTTACAGGGCAGATACTGC | 902 |  |  |  |  |  |  |
| QY  | 781 | CAAGTGAGGTGAGCCTGCAGTGTGTGCACGCCGGTTCGGGAGGAGGAGTCTCGTGC    | 840 |  |  |  |  |  |  |
| DB  | 903 | CAAGTGAGGTGAGCCTGCAGTGTGTGCACGCCGGTTCGGGAGGAGGAGTCTCGTGC    | 962 |  |  |  |  |  |  |
| QY  | 841 | GTCTGTGACATCGGCTACGGGGAGCCCAAGTGTGCCACCAAGTGATTTTCCCTTCCAC  | 900 |  |  |  |  |  |  |

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Db 963 GTCTGTGACATCGCTACGGGGGAGCCACAGTGTGCCACCAAGGTCATTTTCCCTTCAC 1022
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QY 1021 AAGTGCAGACATCTCGCTTCTACTGTGGCGCCTGGAGACCAACCAAGGTGACT 1080
Db 1143 AAGTGCAGACATCTCGCTTCTACTGTGGCGCCTGGAGACCAACCAAGGTGACT 1202
QY 1081 GACAGTCACTTCGAGACCAAGAACTTCTGGATCGGGCTCACCTACAAGACCCCAAGGAC 1140
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QY 1141 TCCTTCGCTGGGCCACAGGGGAGACAGGCTTCACAGTTTGGCTTTGGGCGAGCCT 1200
Db 1263 TCCTTCGCTGGGCCACAGGGGAGACAGGCTTCACAGTTTGGCTTTGGGCGAGCCT 1322
QY 1201 GACAACCAAGCGGCTGTGTGCTGAGTGTGCTGATGGGCTTTGGCAACTGCGTGGAGCTG 1260
Db 1323 GACAACCAAGCGGCTGTGTGCTGAGTGTGCTGATGGGCTTTGGCAACTGCGTGGAGCTG 1382
QY 1261 CAGGCTTCAGCTGCTTCACTTGAACGACGACGCGCTGCAAAACCCGAAACCGTTTACATC 1320
Db 1383 CAGGCTTCAGCTGCTTCACTTGAACGACGACGCGCTGCAAAACCCGAAACCGTTTACATC 1442
QY 1321 TGCCAG 1326
Db 1443 TGCCAG 1448

RESULT 6
US-09-944-449-49
; Sequence 49, Application US/09944449
; Patent No. US20020102647A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944, 449
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866, 028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067, 411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069, 334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069, 335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069, 278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069, 425
; PRIOR FILING DATE: December 12, 1997

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; PRIOR APPLICATION NUMBER: 60/069, 696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069, 694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069, 702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069, 870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069, 873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068, 017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070, 440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074, 086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074, 092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075, 945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112, 850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113, 296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146, 222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216, 021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218, 517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254, 311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020102647A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020102647A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 49
; LENGTH: 1876
; TYPE: DNA
; ORGANISM: Homo Sapien
; US-09-944-449-49

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Query Match 100.0%; Score 1326; DB 10; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 0;

Matches 1326; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ATGCTGCATCCAGAGACCTCCCTGCGGGGCACTCTCTGCTGTGCTGCTGCGCCCTC 60
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QY 61 CTTGGCACCACCTGGCAGAGTGTGGCCACCCAGCTGCAGAGAGAGGCTCCGATGGCC 120
Db 183 CTTGGCACCACCTGGCAGAGTGTGGCCACCCAGCTGCAGAGAGAGGCTCCGATGGCC 242
QY 121 GGAGCCCTGAACAGGAAGAGAGTTCCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCT 180
Db 243 GGAGCCCTGAACAGGAAGAGAGTTCCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCT 302
QY 181 TGGTCCAGCCCTCCGCTGACATGCGAGAGCTGAGCTGAGTGCACAGCCTGGCCCAA 240
Db 303 TGGTCCAGCCCTCCGCTGACATGCGAGAGCTGAGCTGAGTGCACAGCCTGGCCCAA 362
QY 241 CTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCGAGCTGCATCCGCGCTG 300
Db 363 CTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCGAGCTGCATCCGCGCTG 422
QY 301 TGGCGACCCCTGCAAGTGGGCTGGAACATGACAGCTGCTGCCCGCGGCTTGGCTCCTTT 360
Db 423 TGGCGACCCCTGCAAGTGGGCTGGAACATGACAGCTGCTGCCCGCGGCTTGGCTCCTTT 482
QY 361 GTTGAAGTGTGAGCCTATGTTTTCAGAGGGGCGAGCGGTACAGCCACCGCGCAGGAGAG 420
Db 483 GTTGAAGTGTGAGCCTATGTTTTCAGAGGGGCGAGCGGTACAGCCACCGCGCAGGAGAG 542
QY 421 TGTGCTCAAGCCAGCCTGACCCACTACAGCGAGCTGCTGTGGGCCACCTCAAGCCAG 480
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QY 481 CTGGGCTGTGGCGGCGACCTGTGCTCTCAGGCCAGACGATAGAGCCCTTTGCTCT 540
Db 603 CTGGGCTGTGGCGGCGACCTGTGCTCTCAGGCCAGACGATAGAGCCCTTTGCTCT 662
QY 541 GCCTACTCCCCGGAGGAACTGGAGGTCAACGGGAAGACAATCATCCCTTATAAGAG 600
Db 663 GCCTACTCCCCGGAGGAACTGGAGGTCAACGGGAAGACAATCATCCCTTATAAGAG 722
QY 601 GGTGCTCTGGTGTTCGCTCTGCACAGCCAGTCTCTCAGGCTGCTTCAAGCCCTGGACCAT 660
Db 723 GGTGCTCTGGTGTTCGCTCTGCACAGCCAGTCTCTCAGGCTGCTTCAAGCCCTGGACCAT 782
QY 661 GCAGGGGGGCTGTGTGAGGTCCCAGGAATCTTGTGCTGATGAGCTGCCAGAACCATGGA 720
Db 783 GCAGGGGGGCTGTGTGAGGTCCCAGGAATCTTGTGCTGATGAGCTGCCAGAACCATGGA 842
QY 721 CGTCTCAACATCAGCAGCTGCCACTGCCACTGTCCCTGCTGCATACACGGGAGATCTGC 780
Db 843 CGTCTCAACATCAGCAGCTGCCACTGCCACTGTCCCTGCTGCATACACGGGAGATCTGC 902
QY 781 CAAGTGAGGTGCAGCCTGCAGTGTGTGCACGGCGGTTCCGGAGGAGGAGTGTCTGTC 840
Db 903 CAAGTGAGGTGCAGCCTGCAGTGTGTGCACGGCGGTTCCGGAGGAGGAGTGTCTGTC 962
QY 841 GTCTGTGACATCGGCTACGGGGAGGCCAGTGTGCCACCAAGTGTGATTTTCCCTTCCAC 900
Db 963 GTCTGTGACATCGGCTACGGGGAGGCCAGTGTGCCACCAAGTGTGATTTTCCCTTCCAC 1022
QY 901 ACCTGTGACCTGAGGATCGACGAGAGTGTCTTATGTGTCTTCAGAGGAGACACCTAT 960
Db 1023 ACCTGTGACCTGAGGATCGACGAGAGTGTCTTATGTGTCTTCAGAGGAGACACCTAT 1082
QY 961 TACAGAGCCAGGATGAATGTACAGAGAAAGCGGGGTGTGGCCCGAGATCAAGAGCCAG 1020
Db 1083 TACAGAGCCAGGATGAATGTACAGAGAAAGCGGGGTGTGGCCCGAGATCAAGAGCCAG 1142
QY 1021 AAAGTCAGGACATCTCGCTTCTATCTGGCGGCTGTGAGACCCACCAACAGGAGTGA 1080
Db 1143 AAAGTCAGGACATCTCGCTTCTATCTGGCGGCTGTGAGACCCACCAACAGGAGTGA 1202
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QY 1081 GACAGTACTTCGAGACGACGAGCAACTTCTGGATCGGCTCACCTACAGACCGCCAGGAC 1140
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QY 1141 TCCTTCCGCTGGGCCACAGGGGAGCAGCAGGCTTTCACAGTCTTGGCTTTGGGCGAGCCT 1200
Db 1263 TCCTTCCGCTGGGCCACAGGGGAGCAGCAGGCTTTCACAGTCTTGGCTTTGGGCGAGCCT 1322
QY 1201 GACAACACGCGGCTGGTGTGCTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1260
Db 1323 GACAACACGCGGCTGGTGTGCTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1382
QY 1261 CAGGCTTCAGTGCCTTCACTGGAACGACGACGCTGCAAAACCGGAAACCGGTTTACATC 1320
Db 1383 CAGGCTTCAGTGCCTTCACTGGAACGACGACGCTGCAAAACCGGAAACCGGTTTACATC 1442
QY 1321 TGCCAG 1326
Db 1443 TGCCAG 1448
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RESULT 7  
US-09-944-457-49  
; Sequence 49, Application US/09944457  
; Patent No. US20020110859A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Baton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kljavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548PICI  
; CURRENT APPLICATION NUMBER: US/09/944,457  
; PRIOR FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440

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1 PRIOR FILING DATE: January 5, 1998
2 PRIOR APPLICATION NUMBER: 60/074,086
3 PRIOR FILING DATE: February 9, 1998
4 PRIOR APPLICATION NUMBER: 60/074,092
5 PRIOR FILING DATE: February 9, 1998
6 PRIOR APPLICATION NUMBER: 60/075,945
7 PRIOR FILING DATE: February 25, 1998
8 PRIOR APPLICATION NUMBER: 60/112,850
9 PRIOR FILING DATE: December 16, 1998
10 PRIOR APPLICATION NUMBER: 60/113,296
11 PRIOR FILING DATE: December 22, 1998
12 PRIOR APPLICATION NUMBER: 60/146,222
13 PRIOR FILING DATE: July 28, 1999
14 PRIOR APPLICATION NUMBER: PCT/US98/19330
15 PRIOR FILING DATE: September 16, 1998
16 PRIOR APPLICATION NUMBER: PCT/US98/25108
17 PRIOR FILING DATE: December 1, 1998
18 PRIOR APPLICATION NUMBER: 09/216,021
19 PRIOR FILING DATE: December 16, 1998
20 PRIOR APPLICATION NUMBER: 09/218,517
21 PRIOR FILING DATE: December 22, 1998
22 PRIOR APPLICATION NUMBER: 09/254,311
23 PRIOR FILING DATE: March 3, 1999
24 PRIOR APPLICATION NUMBER: PCT/US99/12252
25 PRIOR FILING DATE: June 22, 1999
26 PRIOR APPLICATION NUMBER: PCT/US99/21090
27 PRIOR FILING DATE: September 15, 1999
28 PRIOR APPLICATION NUMBER: PCT/US99/28409
29 PRIOR FILING DATE: No. US20020110859A1ember 30, 1999
30 PRIOR APPLICATION NUMBER: PCT/US99/28313
31 PRIOR FILING DATE: No. US20020110859A1ember 30, 1999
32 PRIOR APPLICATION NUMBER: PCT/US99/28301
33 PRIOR FILING DATE: December1, 1999
34 PRIOR APPLICATION NUMBER: PCT/US99/30095
35 PRIOR FILING DATE: December 16, 1999
36 PRIOR APPLICATION NUMBER: PCT/US00/03565
37 PRIOR FILING DATE: February 11, 2000
38 PRIOR APPLICATION NUMBER: PCT/US00/04414
39 PRIOR FILING DATE: February 22, 2000
40 PRIOR APPLICATION NUMBER: PCT/US00/05841
41 PRIOR FILING DATE: March 2, 2000
42 PRIOR APPLICATION NUMBER: PCT/US00/08439
43 PRIOR FILING DATE: March 30, 2000
44 PRIOR APPLICATION NUMBER: PCT/US00/14042
45 PRIOR FILING DATE: May 22, 2000
46 PRIOR APPLICATION NUMBER: PCT/US00/20710
47 PRIOR FILING DATE: July 28, 2000
48 PRIOR APPLICATION NUMBER: PCT/US00/32678
49 PRIOR FILING DATE: December 1, 2000
50 PRIOR APPLICATION NUMBER: PCT/US01/06520
51 PRIOR FILING DATE: February 28, 2001
52 NUMBER OF SEQ ID NOS: 120
53 SEQ ID NO 49
54 LENGTH: 1876
55 TYPE: DNA
56 ORGANISM: Homo Sapien
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|    | Query Match           | 100.0%;   | Score 1326;  | DB 10;     | Length 1876; |
|----|-----------------------|---|--------------|------------|--------------|
|    | Best Local Similarity | 100.0%;   | Pred. No. 0; |            |              |
|    | Matches 1326;         | Conservative  | 0;           | Mismatches | 0;           |
|    |                       |   |              | Indels     | Gaps         |
| Qy | 1                     | ATGCTGATCCAGAGACCTCCCTTGCCGGGGGCATCTCCGTGCTGCTCCTTGCCCTC  | 60           |            |              |
| Db | 123                   | ATGCTGATCCAGAGACCTCCCTTGCCGGGGGCATCTCCGTGCTGCTCCTTGCCCTC  | 182          |            |              |
| Qy | 61                    | CTTGSCACCACTGGGCAGAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGCC | 120          |            |              |
| Db | 183                   | CTTGGCACCACTGGGCAGAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGCC | 242          |            |              |
| Qy | 121                   | GGAGCCCTGAACAGGAGGAGGTTTCTTGCTCCTCCCTGCACACCGCCTGGCGAGC   | 180          |            |              |
| Db | 243                   | GGAGCCCTGAACAGGAGGAGGTTTCTTGCTCCTCCCTGCACACCGCCTGGCGAGC   | 302          |            |              |

|    |      |  |      |
|----|------|--|------|
| QY | 181  | TTGGTCCAGCCCCCTCGGGCTGACATCGGAGGCTGACTGGAGTACAGCCTGGCCCAA      | 240  |
| DB | 303  | TTGGGTCCAGCCCTCGCGCTGACATCGGAGGTGACTGGAGTACAGCCTGGCCCAA        | 362  |
| QY | 241  | CTTGGCTCAAGCCAGGCGAGCCCTCTGTGGAAATCCAAACCCGAGCCTGGCATCCGGCCTG  | 300  |
| DB | 363  | CTTGGCTCAAGCCAGGCGAGCCCTCTGTGGAAATCCAAACCCGAGCCTGGCATCCGGCCTG  | 422  |
| QY | 301  | TTGGCGCACCTCTCAAGTGGCTGGAACATGACGTGCTGCCCCGGGCTTTGGGTCTCTTT    | 360  |
| DB | 423  | TTGGCGCACCTCTCAAGTGGCTGGAACATGACGTGCTGCCCCGGGCTTTGGGTCTCTTT    | 482  |
| QY | 361  | GTGTGAAGTGGTACGCTATGGTTTTCAGAGGGGACGGGTACAGCCACGCGCAGGAGAG     | 420  |
| DB | 483  | GTGTGAAGTGGTACGCTATGGTTTTCAGAGGGGACGGGTACAGCCACGCGCAGGAGAG     | 542  |
| QY | 421  | TTGTGCTCGCAACGCCACCTGCACCCACTACACGACAGCTGCTGTGGGCCACCTCAAGCCAG | 480  |
| DB | 543  | TTGTGCTCGCAACGCCACCTGCACCCACTACACGACAGCTGCTGTGGGCCACCTCAAGCCAG | 602  |
| QY | 481  | CTGGGTGTGGGGGACACTGTGCTCTCAGGCCAGACAGCATAGAAAGCTTTGTCTGT       | 540  |
| DB | 603  | CTGGGTGTGGGGGACACTGTGCTCTCAGGCCAGACAGCATAGAAAGCTTTGTCTGT       | 662  |
| QY | 541  | GCCTACTCCCCGGAGGCACTGGGAGTCTAACGGGAAGACAATCATCCCTATAAGAAG      | 600  |
| DB | 663  | GCCTACTCCCCGGAGGCACTGGGAGTCTAACGGGAAGACAATCATCCCTATAAGAAG      | 722  |
| QY | 601  | GGTGCCCTGGTGTTCGCTCTGCACAGCCAGTGTCTCAGGCTGCTTCAAAGCCTGGGACAT   | 660  |
| DB | 723  | GGTGCCCTGGTGTTCGCTCTGCACAGCCAGTGTCTCAGGCTGCTTCAAAGCCTGGGACAT   | 782  |
| QY | 661  | GCAGGGGGGCTCTGTGAGTCCCAAGGAATCCTGTGCGATGAGCTGCCAAGAACCATGGA    | 720  |
| DB | 783  | GCAGGGGGGCTCTGTGAGTCCCAAGGAATCCTGTGCGATGAGCTGCCAAGAACCATGGA    | 842  |
| QY | 721  | CGTCTCAACATCAGCACCTGCCACTGTCCCTCTGGCTTACACGGGAGATATCTGC        | 780  |
| DB | 843  | CGTCTCAACATCAGCACCTGCCACTGTCCCTCTGGCTTACACGGGAGATATCTGC        | 902  |
| QY | 781  | CAAGTGAGGTGACGCTGCAGTGTGTGCACGCGCGTCTCCGGAGGAGGAGTGTCTGTC      | 840  |
| DB | 903  | CAAGTGAGGTGACGCTGCAGTGTGTGCACGCGCGTCTCCGGAGGAGGAGTGTCTGTC      | 962  |
| QY | 841  | GTCTGTGACATCGGTACGGGGGAGCCCAAGTGTGCCACCAAGGTGCAATTTTCCCTTCCAC  | 900  |
| DB | 963  | GTCTGTGACATCGGTACGGGGGAGCCCAAGTGTGCCACCAAGGTGCAATTTTCCCTTCCAC  | 1022 |
| QY | 901  | ACCTGTGACCTGAGGATCGACGGAGACTGCTTCATGGTGTCTCAGAGGCAGACACCTAT    | 960  |
| DB | 1023 | ACCTGTGACCTGAGGATCGACGGAGACTGCTTCATGGTGTCTCAGAGGCAGACACCTAT    | 1082 |
| QY | 961  | TACAGAGCCAGGATCAAAATGTACAGGAAGGCGGTGCTGGCCCCAGATCAAGAGCCAG     | 1020 |
| DB | 1083 | TACAGAGCCAGGATCAAAATGTACAGGAAGGCGGTGCTGGCCCCAGATCAAGAGCCAG     | 1142 |
| QY | 1021 | AAAGTGCAGGACATCCTCGCCTTCTATCTGGGCCGCTGAGACACCAACGAGGTGACT      | 1080 |
| DB | 1143 | AAAGTGCAGGACATCCTCGCCTTCTATCTGGGCCGCTGAGACACCAACGAGGTGACT      | 1202 |
| QY | 1081 | GACAGTGACTTCGAGACACGAGAACTTCTGGATCGGCTCACTACAGACCGCCCAAGGAC    | 1140 |
| DB | 1203 | GACAGTGACTTCGAGACACGAGAACTTCTGGATCGGCTCACTACAGACCGCCCAAGGAC    | 1262 |
| QY | 1141 | TCCTTTCGGCTGGGCCACAGGGGAGCACAGGCCCTTCACCACTTTTGCCCTTTGGGACGCT  | 1200 |
| DB | 1263 | TCCTTTCGGCTGGGCCACAGGGGAGCACAGGCCCTTCACCACTTTTGCCCTTTGGGACGCT  | 1322 |
| QY | 1201 | GACACACCGGCTGGTGTGGCTGAGTGTCTGCCATGGGTTTGGCAACTCGGTGAGCTG      | 1260 |
| DB | 1323 | GACACACCGGCTGGTGTGGCTGAGTGTCTGCCATGGGTTTGGCAACTCGGTGAGCTG      | 1382 |



Qy 1261 CAGGCTTCAGCTGCCTTCAACTGGAACGACGAGCTGCAAAACCCGAAACCGTTACATC 1320  
|||||  
Db 1393 CAGGCTTCAGCTGCCTTCACTGGAGACGACGAGCTGCAAAACCCGAAACCGTTACATC 1442  
|||||  
Qy 1321 TGCCAG 1326  
|||||  
Db 1443 TGCCAG 1448

## RESULT 8

US-09-945-587-49  
; Sequence 49, Application US/09945587  
; Patent No. US20020127643A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Bolstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kljavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548PICI  
; CURRENT APPLICATION NUMBER: US/09/945,587  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998  
; PRIOR APPLICATION NUMBER: 60/074,086  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/074,092  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/075,945  
; PRIOR FILING DATE: February 25, 1998  
; PRIOR APPLICATION NUMBER: 60/112,850  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 60/113,296  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 60/146,222  
; PRIOR FILING DATE: July 28, 1999

; PRIOR APPLICATION NUMBER: PCT/US98/19330  
; PRIOR FILING DATE: September 16, 1998  
; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: December 1, 1998  
; PRIOR APPLICATION NUMBER: 09/216,021  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 09/218,517  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December 1, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: December 16, 1999  
; PRIOR APPLICATION NUMBER: PCT/US00/03565  
; PRIOR FILING DATE: February 11, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: February 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: March 2, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/08439  
; PRIOR FILING DATE: March 30, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/14042  
; PRIOR FILING DATE: May 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/20710  
; PRIOR FILING DATE: July 28, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/32678  
; PRIOR FILING DATE: December 1, 2000  
; PRIOR APPLICATION NUMBER: PCT/US01/06520  
; PRIOR FILING DATE: February 28, 2001  
; NUMBER OF SEQ ID NOS: 120  
; SEQ ID NO 49  
; LENGTH: 1876  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
; US-09-945-587-49

Query Match 100.0%; Score 1326; DB 10; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1326; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGCATCCAGAGACCTCCCTGGCGGGGGCATCTCCTGGCTGTGCTTCCTGGCCCTC 60  
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Db 123 ATGCTGCATCCAGAGACCTCCCTGGCGGGGGCATCTCCTGGCTGTGCTTCCTGGCCCTC 182  
Qy 61 CTTGGCACACCTGGGCAGAGGTGTGGCCACCCAGCTGCAGGAGAGGCTCCGATGGCC 120  
|||||  
Db 183 CTTGGCACACCTGGGCAGAGGTGTGGCCACCCAGCTGCAGGAGAGGCTCCGATGGCC 242  
Qy 121 GGAGCCCTCAACAGGAGAGAGTTCCTCCTCCTCCCTGCACACCCCTGGCGAGC 180  
|||||  
Db 243 GGAGCCCTCAACAGGAGAGAGTTCCTCCTCCTCCCTGCACACCCCTGGCGAGC 302  
Qy 181 TGGGTCCAGCCCTCCGCTGACATGCGGAGGCTGGAGTGGAGTGCAGCCTGGCCCAA 240  
|||||  
Db 303 TGGGTCCAGCCCTCCGCTGACATGCGGAGGCTGGAGTGGAGTGCAGCCTGGCCCAA 362  
Qy 241 CTTGGTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCGAGCCTGGGATCCGGCTG 300  
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Db 363 CTTGGTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCGAGCCTGGGATCCGGCTG 422  
Qy 301 TGGCGCACCTGCAAGTGGGCTGGAACATCAGCTGCTGCCCGGGCTTGGCGCTCTTT 360  
|||||  
Db 423 TGGCGCACCTGCAAGTGGGCTGGAACATCAGCTGCTGCCCGGGCTTGGCGCTCTTT 482

QY 361 GTTGAAGTGGTCAGCCTATGTTTTCAGAGGGGCGGACGAGTACAGCCACGCGCAGGAG 420  
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QY 421 TGTGCTGCAACGCGCCTGACCCACCTACAGCGAGCTGTTGGGCGCAGCTCAAGCCAG 480  
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QY 541 GCCTACTCCCCCGGAGGCACTGGGAGGTCAACGGGAGAGCAATCATCCCTTATAAGAG 600  
Db 663 GCCTACTCCCCCGGAGGCACTGGGAGGTCAACGGGAGAGCAATCATCCCTTATAAGAG 722  
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QY 781 CAAGTGAGGTGCGCCTGACGCTGCTGACGCGCGGTTCCGGGAGGAGGAGTGTCTGCTGC 840  
Db 903 CAAGTGAGGTGCGCCTGACGCTGCTGACGCGCGGTTCCGGGAGGAGGAGTGTCTGCTGC 962  
QY 841 GTCTGTGACATCGGCTACGGGGGAGCCAGTGTGCGCACCAAGGTCATTTCCCTTCCAC 900  
Db 963 GTCTGTGACATCGGCTACGGGGGAGCCAGTGTGCGCACCAAGGTCATTTCCCTTCCAC 1022  
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Db 1023 ACCTGTGACCTGAGGATCGAGCGAGAGTCTTATGTTGCTTCCAGAGCGAGACACCTAT 1082  
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Db 1083 TACAGAGCCAGGATGAATGTGAGAGGAAAGCGGGGTGCTGGCCAGATCAAGAGCCAG 1142  
QY 1021 AAGTGAGGACATCTCGGCTTCTATCTGGGCGCCTGGAGACCAACCAAGAGTGACT 1080  
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QY 1141 TCCTTCGCTGGGCGCAGGGGAGCAGGAGCCTTACAGGCTTGTGCTTGGGCGAGCT 1200  
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QY 1201 GACAACACGGGCTGTTGGCTGAGTGTGCTGCCATGGGTTTGGCAACTGGCTGGAGCTG 1260  
Db 1323 GACAACACGGGCTGTTGGCTGAGTGTGCTGCCATGGGTTTGGCAACTGGCTGGAGCTG 1382  
QY 1261 CAGGCTTCAGCTGCTTCACTGGAAGGAGCAGGCTGCAAAACCGGAAACCGTTACATC 1320  
Db 1383 CAGGCTTCAGCTGCTTCACTGGAAGGAGCAGGCTGCAAAACCGGAAACCGTTACATC 1442  
QY 1321 TGCCAG 1326  
Db 1443 TGCCAG 1448

## RESULT 9

US-09-945-015-49

; Sequence 49, Application US/09945015

; Patent No. US20020132768A1

GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Baton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kljavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/945,015  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
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; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998  
; PRIOR APPLICATION NUMBER: 60/074,086  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/074,092  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/075,945  
; PRIOR FILING DATE: February 25, 1998  
; PRIOR APPLICATION NUMBER: 60/112,850  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 60/113,296  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 60/146,222  
; PRIOR FILING DATE: July 28, 1999  
; PRIOR APPLICATION NUMBER: PCT/US98/19330  
; PRIOR FILING DATE: September 16, 1998  
; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: December 1, 1998  
; PRIOR APPLICATION NUMBER: 09/216,021  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 09/218,517  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December 1, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: December 16, 1999  
; PRIOR APPLICATION NUMBER: PCT/US00/03565  
; PRIOR FILING DATE: February 11, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: February 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: March 2, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/08439  
; PRIOR FILING DATE: March 30, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/14042  
; PRIOR FILING DATE: May 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/20710  
; PRIOR FILING DATE: July 28, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/32678  
; PRIOR FILING DATE: December 1, 2000  
; PRIOR APPLICATION NUMBER: PCT/US01/06520  
; PRIOR FILING DATE: February 28, 2001  
; NUMBER OF SEQ ID NOS: 120  
; SEQ ID NO 49  
; LENGTH: 1876  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-09-945-015-49

Query Match 100.0%; Score 1326; DB 10; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1326; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ATGCTGCATCCAGAGACCTCCCTCGCCGGGGGCAATCTCTGGGTGTCCTCGCCCTC 60  
Db 123 ATGCTGCATCCAGAGACCTCCCTCGCCGGGGGCAATCTCTGGGTGTCCTCGCCCTC 182  
QY 61 CTGGCACCACCTGGCAGAGGTGGCCACCACCCAGCTGAGGAGAGGCTCCGATGCC 120  
Db 183 CTGGCACCACCTGGCAGAGGTGGCCACCACCCAGCTGAGGAGAGGCTCCGATGCC 242  
QY 121 GGAGCCCTGAACAGGAGAGAGTTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 180  
Db 243 GGAGCCCTGAACAGGAGAGAGTTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 302  
QY 181 TGGGTCCAGCCCTCGGCTGACATGCGAGGCTGAGGTGAGTGAGACAGCTGGCCCAA 240  
Db 303 TGGGTCCAGCCCTCGGCTGACATGCGAGGCTGAGGTGAGTGAGACAGCTGGCCCAA 362  
QY 241 CTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCGAGCCTGGGATCCGGCTG 300  
Db 363 CTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACCCGAGCCTGGGATCCGGCTG 422  
QY 301 TGGCAGCCCTGCAAGTGGGCTGGAACATGCAGTGTCTGCGCGGGCTTGGCGTCTCTTT 360  
Db 423 TGGCAGCCCTGCAAGTGGGCTGGAACATGCAGTGTCTGCGCGGGCTTGGCGTCTCTTT 482  
QY 361 GTTGAAGTGTGAGCTATGTTTGGAGGGGAGGAGGCTGAGTGGAGTGGAGGAGAG 420  
Db 483 GTTGAAGTGTGAGCTATGTTTGGAGGGGAGGAGGCTGAGTGGAGTGGAGGAGAG 542  
QY 421 TGTGCTGGAACCCACCTGTCACCCACTACACGAGCTGCTGTGGGCACTCAAGCCAG 480  
Db 543 TGTGCTGGAACCCACCTGTCACCCACTACACGAGCTGCTGTGGGCACTCAAGCCAG 602  
QY 481 CTGGGCTGTGGGCGGACCTGTCTCTGAGGCGCAGACGATAGAGGCTTTGTCTGT 540  
Db 603 CTGGGCTGTGGGCGGACCTGTCTCTGAGGCGCAGACGATAGAGGCTTTGTCTGT 662  
QY 541 GCCTACTCCCGGAGGCAACTGGGAGGTCAACGGGAAGACAATCATCCCTCATAGAAG 600

Db 663 GCCTACTCCCGGAGGCAACTGGGAGGTCAACGGGAAGACAATCATCCCTCATAGAAG 722  
QY 601 GTTGCTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660  
Db 723 GTTGCTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 782  
QY 661 GCAGGGGGGCTCTGTGAGGTCCCGAGGAATCCCTTGTGCGATGAGTGCAGGAGGAGTGCCTGTC 720  
Db 783 GCAGGGGGGCTCTGTGAGGTCCCGAGGAATCCCTTGTGCGATGAGTGCAGGAGGAGTGCCTGTC 842  
QY 721 CGTCTCAACATCAGCACCTGCTGAGGTCCCGAGGAATCCCTTGTGCGATGAGTGCAGGAGGAGTGCCTGTC 780  
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QY 781 CAAGTGTGAGGTGAGGTGAGGTGAGGTGAGGTGAGGTGAGGTGAGGTGAGGTGAGGTGAGGTGAGGT 840  
Db 903 CAAGTGTGAGGTGAGGTGAGGTGAGGTGAGGTGAGGTGAGGTGAGGTGAGGTGAGGTGAGGTGAGGT 962  
QY 841 GTCTGTGATCATCGGCTACGGGGAGGCCAGTGTGCCACCAAGGTGCAATTTTCCCTTCCAC 900  
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QY 901 ACCTGTGACCTGAGGATCGACGAGACTGCTTTCATGCTGCTTTCAGAGGAGGAGACACTAT 960  
Db 1023 ACCTGTGACCTGAGGATCGACGAGACTGCTTTCATGCTGCTTTCAGAGGAGGAGACACTAT 1082  
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QY 1081 GACAGTGTCTGAGACACAGGAACTTCTTGATCGGGCTACCTTACAGAGCGGCAAGGAC 1140  
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QY 1141 TCCTTCGCTGGCCACAGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1200  
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QY 1201 GACAAACCGGCTGGTGTGGTGTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1260  
Db 1323 GACAAACCGGCTGGTGTGGTGTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1382  
QY 1261 CAGGCTTACGCTGCTTCACTTGAACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1320  
Db 1383 CAGGCTTACGCTGCTTCACTTGAACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1442  
QY 1321 TGCCAG 1326  
Db 1443 TGCCAG 1448

RESULT 10  
US-09-944-396-49  
; Sequence 49, Application US/09944396  
; Patent No. US20020132981A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kljavin, Ivar







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; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: NO. US20020142419A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: NO. US20020142419A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 49
; LENGTH: 1876
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-944-432-49

Query Match      100.0%; Score 1326; DB 10; Length 1876;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1326; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGCTGCATCCAGAGACCTCCCTGCGCGGGGCATCTCCTGCGTGTGCTCCGCGCCCTC 60
Db 123 ATGCTGCATCCAGAGACCTCCCTGCGCGGGGCATCTCCTGCGTGTGCTCCGCGCCCTC 182
QY 61 CTTGGCACCACTGGCGCAGAGAGTGTGGCCACCCAGCTGCAGGAGCGGCTCCGATGCC 120

; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
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; PRIOR APPLICATION NUMBER: 60/074,092
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; PRIOR APPLICATION NUMBER: 60/075,945
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; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
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; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
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; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
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; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
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; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: NO. US20020142419A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: NO. US20020142419A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
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; PRIOR FILING DATE: December 16, 1999
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; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 49
; LENGTH: 1876
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-944-432-49

Query Match      100.0%; Score 1326; DB 10; Length 1876;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1326; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGCTGCATCCAGAGACCTCCCTGCGCGGGGCATCTCCTGCGTGTGCTCCGCGCCCTC 60
Db 123 ATGCTGCATCCAGAGACCTCCCTGCGCGGGGCATCTCCTGCGTGTGCTCCGCGCCCTC 182
QY 61 CTTGGCACCACTGGCGCAGAGAGTGTGGCCACCCAGCTGCAGGAGCGGCTCCGATGCC 120
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Db 1263 TCCTTCGGTGGGCCACAGGGGAGCACAGGCGCTTACCAGCTTTTGGCCTTTGGGAGCGCT 1322  
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Db 1323 GACAACACCGGGTGGTGTGGCTGAGTGTGCTGCCATGGGTTTGGCAACTGCGTGGAGCTG 1382  
QY 1261 CAGGTTTCAGCTGCTTCACTGAACAGCAGCGCTGCAAAACCCGAAACCGTTACATC 1320  
Db 1383 CAGGTTTCAGCTGCTTCACTGAACAGCAGCGCTGCAAAACCCGAAACCGTTACATC 1442  
QY 1321 TGCAG 1326  
Db 1443 TGCCAG 1448

RESULT 13  
US-09-943-762-49  
; Sequence 49, Application US/09943762  
; Patent No. US20020142958A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Geritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kljavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; TITLE OF INVENTION: ACIDS ENCODING THE SAME  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/943,762  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998  
; PRIOR APPLICATION NUMBER: 60/074,086  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/074,092  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/075,945  
; PRIOR FILING DATE: February 25, 1998

; PRIOR APPLICATION NUMBER: 60/112,850  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 60/113,296  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 60/146,222  
; PRIOR FILING DATE: July 28, 1999  
; PRIOR APPLICATION NUMBER: PCT/US98/19330  
; PRIOR FILING DATE: September 16, 1998  
; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: December 1, 1998  
; PRIOR APPLICATION NUMBER: 09/216,021  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 09/218,517  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December 1, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: December 16, 1999  
; PRIOR APPLICATION NUMBER: PCT/US00/03565  
; PRIOR FILING DATE: February 11, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: February 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: March 2, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/08439  
; PRIOR FILING DATE: March 30, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/14042  
; PRIOR FILING DATE: May 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/20710  
; PRIOR FILING DATE: July 28, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/32678  
; PRIOR FILING DATE: December 1, 2000  
; PRIOR APPLICATION NUMBER: PCT/US01/06520  
; PRIOR FILING DATE: February 28, 2001  
; NUMBER OF SEQ ID NOS: 120  
; SEQ ID NO 49  
; LENGTH: 1876  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-09-943-762-49  
Query Match 100.0%; Score 1326; DB 10; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1326; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ATGCTGTCATCCAGAGAGCTCCCTGGCGGGGGGATCTCTGGCTGTCTCTGGCCCTC 60  
Db 123 ATGCTGTCATCCAGAGAGCTCCCTGGCGGGGGGATCTCTGGCTGTCTCTGGCCCTC 182  
QY 61 CTGGGCACCACTGGGAGAGGTGTGGCCACCCAGAGTGCAGGAGCAGGCTCCGATGGCC 120  
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Db 303 TGGTCTCAGCCCTCCCTGGCGGCTGACATGGGAGGCTGGAGTGGAGTGCAGCCCTGGCCAA 362  
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Db 363 CTGGCTCAAGCCAGGCGACGCCCTCTGTGGAATCCCAACCCGAGCCTGGCATCGGCGCTG 422  
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Db 423 TGGCGCACCTGCAAGTGGGCTGGAACATGCACTGCTGCCGCGGCTTGGCGTCTCTTT 482  
QY 361 GTTGAAGTGGTCAAGCTATGTTGTCAGAGGGGCGACGCTACAGCCACGCGGAGAGAG 420  
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QY 481 CTGGGCTGTGGGCGGCACTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGT 540  
Db 603 CTGGGCTGTGGGCGGCACTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGT 662  
QY 541 GCCTACTCCCGGAGGCACTGGGAGGTCAACGGGAGGAGCAATCATCCCTATATAAGAG 600  
Db 663 GCCTACTCCCGGAGGCACTGGGAGGTCAACGGGAGGAGCAATCATCCCTATATAAGAG 722  
QY 601 GGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGT 660  
Db 723 GGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGT 782  
QY 661 GCAGGGGGGCTGTGTGAGTCCCGAGGAATCTTGTGCTGATGAGTGCAGAACCATGGA 720  
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QY 721 CGTCTCAACATCAGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACT 780  
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QY 781 CAAGTAGGTCAGCCTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACT 900  
Db 903 CAAGTAGGTCAGCCTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACT 962  
QY 841 GTCTGTGACATCGCTACGGGGAGCCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900  
Db 963 GTCTGTGACATCGCTACGGGGAGCCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1022  
QY 901 ACCTGTGACCTGAGATCGAGGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960  
Db 1023 ACCTGTGACCTGAGATCGAGGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1082  
QY 961 TACAGAGCCAGGATGAATGTGAGAGAAAGGGGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020  
Db 1083 TACAGAGCCAGGATGAATGTGAGAGAAAGGGGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1142  
QY 1021 AAAGTCAGGACATCTCGCTTCTATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080  
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QY 1081 GACAGTGAATTCAGAGACGAGGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140  
Db 1203 GACAGTGAATTCAGAGACGAGGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1262  
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Db 1263 TCCTTCGCTGGGCGGACAGGAGGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1322  
QY 1201 GACAAACAGGGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1260  
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Db 1383 CAGGCTTACGCTTCACTGGAACGAGGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1442  
QY 1321 TGCCAG 1326  
Db 1443 TGCCAG 1448

## RESULT 14

US-09-944-654-49

; Sequence 49, Application US/09944654

; Patent No. US20020142959A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin

; APPLICANT: Botstein, David

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gerritsen, Mary

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul

; APPLICANT: Grimaldi, Christopher

; APPLICANT: Gurney, Austin

; APPLICANT: Hillan, Kenneth

; APPLICANT: Kijavini, Ivar

; APPLICANT: Napier, Mary

; APPLICANT: Roy, Margaret

; APPLICANT: Tumas, Daniel

; APPLICANT: Wood, William

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE REFERENCE: P2548PICI

; CURRENT APPLICATION NUMBER: US/09/944,654

; PRIOR FILING DATE: 2001-09-26

; PRIOR APPLICATION NUMBER: 09/866,028

; PRIOR FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: 60/067,411

; PRIOR FILING DATE: December 3, 1997

; PRIOR APPLICATION NUMBER: 60/069,334

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,335

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,278

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,425

; PRIOR FILING DATE: December 12, 1997

; PRIOR APPLICATION NUMBER: 60/069,696

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,694

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,702

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,870

; PRIOR FILING DATE: December 17, 1997

; PRIOR APPLICATION NUMBER: 60/069,873

; PRIOR FILING DATE: December 17, 1997

; PRIOR APPLICATION NUMBER: 60/068,017

; PRIOR FILING DATE: December 18, 1997

; PRIOR APPLICATION NUMBER: 60/070,440

; PRIOR FILING DATE: January 5, 1998

; PRIOR APPLICATION NUMBER: 60/074,086

; PRIOR FILING DATE: February 9, 1998

; PRIOR APPLICATION NUMBER: 60/074,092

; PRIOR FILING DATE: February 9, 1998

; PRIOR APPLICATION NUMBER: 60/075,945

; PRIOR FILING DATE: February 25, 1998

; PRIOR APPLICATION NUMBER: 60/112,850

; PRIOR FILING DATE: December 16, 1998

; PRIOR APPLICATION NUMBER: 60/113,296

; PRIOR FILING DATE: December 22, 1998

; PRIOR APPLICATION NUMBER: 60/146,222

; PRIOR FILING DATE: July 28, 1999

; PRIOR APPLICATION NUMBER: PCT/US98/19330

; PRIOR FILING DATE: September 16, 1998

; PRIOR APPLICATION NUMBER: PCT/US98/25108

; PRIOR FILING DATE: December 1, 1998

; PRIOR APPLICATION NUMBER: 09/216,021

; PRIOR FILING DATE: December 16, 1998

; PRIOR APPLICATION NUMBER: 09/218,517

|                            |   |
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| PRIOR FILING DATE:         | December 22, 1998   |
| PRIOR APPLICATION NUMBER:  | 09/254,311  |
| PRIOR FILING DATE:         | March 3, 1999   |
| PRIOR APPLICATION NUMBER:  | PCT/US99/12252  |
| PRIOR FILING DATE:         | June 22, 1999   |
| PRIOR APPLICATION NUMBER:  | PCT/US99/21090  |
| PRIOR FILING DATE:         | September 15, 1999  |
| PRIOR APPLICATION NUMBER:  | PCT/US99/28409  |
| PRIOR FILING DATE:         | No. US20020142959A1ember 30, 1999   |
| PRIOR APPLICATION NUMBER:  | PCT/US99/28313  |
| PRIOR FILING DATE:         | No. US20020142959A1ember 30, 1999   |
| PRIOR APPLICATION NUMBER:  | PCT/US99/28301  |
| PRIOR FILING DATE:         | December 1, 1999  |
| PRIOR APPLICATION NUMBER:  | PCT/US99/30095  |
| PRIOR FILING DATE:         | December 16, 1999   |
| PRIOR APPLICATION NUMBER:  | PCT/US00/03565  |
| PRIOR FILING DATE:         | February 11, 2000   |
| PRIOR APPLICATION NUMBER:  | PCT/US00/04414  |
| PRIOR FILING DATE:         | February 22, 2000   |
| PRIOR APPLICATION NUMBER:  | PCT/US00/05841  |
| PRIOR FILING DATE:         | March 2, 2000   |
| PRIOR APPLICATION NUMBER:  | PCT/US00/08439  |
| PRIOR FILING DATE:         | March 30, 2000  |
| PRIOR APPLICATION NUMBER:  | PCT/US00/14042  |
| PRIOR FILING DATE:         | May 22, 2000  |
| PRIOR APPLICATION NUMBER:  | PCT/US00/20710  |
| PRIOR FILING DATE:         | July 28, 2000   |
| PRIOR APPLICATION NUMBER:  | PCT/US00/32678  |
| PRIOR FILING DATE:         | December 1, 2000  |
| PRIOR APPLICATION NUMBER:  | PCT/US01/06520  |
| PRIOR FILING DATE:         | February 28, 2001   |
| NUMBER OF SEQ ID NOS:      | 120   |
| SEQ ID NO 49               |   |
| LENGTH:                    | 1876  |
| TYPE:                      | DNA   |
| ORGANISM:                  | Homo Saplen   |
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| Query Match                | 100.0%; Score 1326; DB 10; Length 1876;                                     |
| Best Local Similarity      | 100.0%; Pred. No. 0;  |
| Matches 1326; Conservative | 0; Mismatches 0; Indels 0; Gaps 0;  |
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| QY                         | 61 CTGTGGCACCACTGGCGAGAGTGTTGGCCACCCTGGCGAGGAGGCTGGCGATGGCC 120             |
| DB                         | 183 CTGTGGCACCACTGGCGAGAGTGTTGGCCACCCTGGCGAGGAGGCTGGCGATGGCC 242            |
| QY                         | 121 GGAGCCCTGAACAGGAAGAGAGTTTCTGCTCTCCCTGCCACAAACCCCTCGCGAGC 180            |
| DB                         | 243 GGAGCCCTGAACAGGAAGAGAGTTTCTGCTCTCCCTGCCACAAACCCCTCGCGAGC 302            |
| QY                         | 181 TGGGTCCAGCCCCCTGGGTGCATATCGGAGGCTGGACTGGAGTGACAGCTGGCCCAA 240           |
| DB                         | 303 TGGGTCCAGCCCCCTGGGTGCATATCGGAGGCTGGACTGGAGTGACAGCTGGCCCAA 362           |
| QY                         | 241 CTGGCTCAAGCCAGGGCAGCCCTCTGTGGAATCCCAACCCGAGCCCTGGCATCCGGCTG 300         |
| DB                         | 363 CTGGCTCAAGCCAGGGCAGGGCTCTGTGGAATCCCAACCCGAGCCCTGGCATCCGGCTG 422         |
| QY                         | 301 TGGCGCACCTTGAAGTGGGCTGGAACATGCAGCTGTGCCCGGGCTTGGCGTCCTTTT 360           |
| DB                         | 423 TGGCGCACCTTGAAGTGGGCTGGAACATGCAGCTGTGCCCGGGCTTGGCGTCCTTTT 482           |
| QY                         | 361 GTTGAAGTGTACGCTTATGGTTTGCAGAGGGGAGGGGTACAGCCAGCGCGGAGGAG 420            |
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| QY                         | 421 TGTGCTCGCAAGCCACTGTCAACCACTTACACGAGAGTCTGTGTGGGGCCACCTCAAGCCAG 480      |
| DB                         | 543 TGTGCTCGCAAGCCACTGTCAACCACTTACACGAGAGTCTGTGTGGGGCCACCTCAAGCCAG 602      |



Mon Dec 30 09:16:17 2002

Search completed: December 28, 2002, 23:04:27  
Job time : 79.356 secs

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OM nucleic - nucleic search, using sw model  
Run on: December 28, 2002, 16:48:37 ; Search time 9.88286 Seconds  
(without alignments)  
7664.697 Million cell updates/sec

Title: US-09-944-896-49\_COPY\_201\_447  
Perfect score: 247  
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Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents\_NA:  
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2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq:\*  
3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq:\*  
4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq:\*  
5: /cgn2\_6/ptodata/2/ina/PCTUS\_COMB.seq:\*  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match % | Length | ID | Description       |
|------------|-------|---------------|--------|----|-------------------|
| 1          | 36    | 14.6          | 970    | 2  | US-08-773-368-2   |
| 2          | 36    | 14.6          | 970    | 3  | US-09-199-887-2   |
| 3          | 33.8  | 13.7          | 13842  | 4  | US-09-105-537-30  |
| 4          | 33.8  | 13.7          | 36778  | 4  | US-09-105-537-5   |
| 5          | 33.8  | 13.7          | 38506  | 3  | US-09-320-878-19  |
| 6          | 32.6  | 13.2          | 3186   | 1  | US-08-761-258-8   |
| 7          | 32.6  | 13.2          | 3186   | 2  | US-08-977-306-8   |
| 8          | 32.4  | 13.1          | 2808   | 3  | US-08-870-126-7   |
| 9          | 32.4  | 13.1          | 2808   | 4  | US-09-445-247-7   |
| 10         | 32.4  | 13.1          | 30001  | 1  | US-08-125-468-1   |
| 11         | 32.4  | 13.1          | 30001  | 2  | US-08-474-933-1   |
| 12         | 32.2  | 13.0          | 465    | 4  | US-09-370-838-229 |
| 13         | 32.2  | 13.0          | 6854   | 4  | US-09-194-905-7   |
| 14         | 32.2  | 13.0          | 20235  | 1  | US-07-642-734C-3  |
| 15         | 32.2  | 13.0          | 20235  | 3  | US-08-439-009A-3  |
| 16         | 32    | 13.0          | 1642   | 1  | US-08-232-015-2   |
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| 18         | 31.2  | 12.6          | 1281   | 4  | US-09-082-092-8   |
| 19         | 31.2  | 12.6          | 1876   | 4  | US-09-082-092-5   |
| 20         | 31.2  | 12.6          | 3103   | 3  | US-08-826-246-3   |
| 21         | 31.2  | 12.6          | 3103   | 3  | US-08-944-495-3   |
| 22         | 31.2  | 12.6          | 3103   | 3  | US-09-126-640-2   |
| 23         | 31.2  | 12.6          | 3103   | 4  | US-08-925-588-3   |
| 24         | 31.2  | 12.6          | 3103   | 4  | US-09-288-292A-2  |
| 25         | 31.2  | 12.6          | 3111   | 3  | US-09-487-444-3   |
| 26         | 31    | 12.6          | 3624   | 1  | US-07-951-715A-6  |
| 27         | 31    | 12.6          | 3624   | 2  | US-08-459-448A-6  |

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| 28 | 31   | 12.6 | 3624  | 3 | US-08-459-595A-6   |
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| 32 | 31   | 12.6 | 3624  | 4 | US-09-547-422-6    |
| 33 | 31   | 12.6 | 8854  | 3 | US-09-053-549-1    |
| 34 | 31   | 12.6 | 36519 | 3 | US-08-923-137-2    |
| 35 | 30.8 | 12.5 | 2456  | 3 | US-08-813-150-5    |
| 36 | 30.8 | 12.5 | 3855  | 4 | US-08-974-549A-4   |
| 37 | 30.8 | 12.5 | 4015  | 3 | US-08-851-843A-224 |
| 38 | 30.8 | 12.5 | 4015  | 4 | US-08-974-549A-1   |
| 39 | 30.8 | 12.5 | 4015  | 4 | US-08-854-050-224  |
| 40 | 30.8 | 12.5 | 4015  | 4 | US-09-430-323-224  |
| 41 | 30.8 | 12.5 | 4015  | 4 | US-09-572-423B-3   |
| 42 | 30.8 | 12.5 | 4015  | 4 | US-09-128-354-1    |
| 43 | 30.8 | 12.5 | 4015  | 4 | US-09-675-321-1    |
| 44 | 30.8 | 12.5 | 4015  | 4 | US-09-052-919-1    |
| 45 | 30.8 | 12.5 | 4037  | 4 | US-08-974-549A-343 |

ALIGNMENTS

RESULT 1  
US-08-773-368-2  
; Sequence 2, Application US/08773368  
; Patent No. 5856130  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Goll, Surya K.  
; TITLE OF INVENTION: NOVEL HUMAN PATHOGENESIS-RELATED  
; TITLE OF INVENTION: PROTEIN  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/773,368  
; FILING DATE:  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy RJ  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0186 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 970 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; CLONE: 1599164  
US-08-773-368-2

Query Match 14.6%; Score 36; DB 2; Length 970;  
Best Local Similarity 52.3%; Pred. No. 0.81; Indels 0; Caps 0;  
Matches 78; Conservative 0; Mismatches 71;



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us-09-944-896-49\_copy\_201\_447.rni

Page 3

Db 5089 GGCCTGCGCTCCGCGTGGGTGCGCTCGCGGAGGACCTGTGGCTGGTGGCCGG 5148  
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## RESULT 5

US-09-320-878-19  
; Sequence 19, Application US/09320878A  
; Patent No. 6117659  
; GENERAL INFORMATION:  
; APPLICANT: ASHLEY, Gary  
; APPLICANT: BETLACH, Melanie C.  
; APPLICANT: BETLACH, Mary C.  
; APPLICANT: MCDANIEL, Robert  
; APPLICANT: TANG, Li  
; TITLE OF INVENTION: RECOMBINANT NARBONOLIDE POLYKETIDE SYNTHASE  
; FILE REFERENCE: 300622002120  
; CURRENT APPLICATION NUMBER: US/09/320,878A  
; CURRENT FILING DATE: 1999-05-27  
; EARLIER APPLICATION NUMBER: CIP OF 09/141,908  
; EARLIER FILING DATE: 1998-08-28  
; EARLIER APPLICATION NUMBER: CIP OF 09/073,538  
; EARLIER FILING DATE: 1998-05-06  
; EARLIER APPLICATION NUMBER: CIP OF 08/846,247  
; EARLIER FILING DATE: 1997-04-30  
; EARLIER APPLICATION NUMBER: 60/119,139  
; EARLIER FILING DATE: 1999-02-08  
; EARLIER APPLICATION NUMBER: 60/100,880  
; EARLIER FILING DATE: 1998-09-22  
; EARLIER APPLICATION NUMBER: 60/087,080  
; EARLIER FILING DATE: 1998-05-28  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 19  
; LENGTH: 38506  
; TYPE: DNA  
; ORGANISM: Streptomyces venezuelae  
US-09-320-878-19

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Best Local Similarity 54.4%; Pred. No. 5.5;  
Matches 68; Conservative 0; Mismatches 57; Indels 0; Gaps 0;

QY 24 GGAGCAGGCTCCGATGCGCGGAGCCCTGAACAGGAAGAGATTCTTGCTCTCCCT 83  
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Db 3231 GGCCTGCGGCTGCCGCTGGGTGCGCTGCGCGAGGAGCTGTGGCGGCTGGTGGCGG 3290  
QY 144 GAGTG 148  
Db 3291 CGGCG 3295

## RESULT 6

US-08-761-258-8  
; Sequence 8, Application US/08761258  
; Patent No. 5756087  
; GENERAL INFORMATION:  
; APPLICANT: Ligon, James M.  
; APPLICANT: Hill, Dwight S.  
; APPLICANT: Lam, Stephen T.  
; APPLICANT: Gaffney, Thomas D.  
; APPLICANT: Torkewitz, Nancy  
; TITLE OF INVENTION: Genetically Modified Pseudomonas Strains  
; TITLE OF INVENTION: with Enhanced Biocontrol Activity  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Ciba-Geigy Corporation  
; STREET: 520 White Plains Road, P.O. Box 2005  
; CITY: Tarrytown  
; STATE: NY  
; COUNTRY: USA  
; ZIP: 10591  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/761,258  
; FILING DATE:  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Meigs, J. Timothy  
; REGISTRATION NUMBER: 38,241  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (919) 541-8587  
; TELEFAX: (919) 541-8689  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3186 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; ORIGINAL SOURCE:  
; ORGANISM: Pseudomonas fluorescens  
; STRAIN: CGA267356 (aka MCG134 and aka BL915)  
; IMMEDIATE SOURCE:  
; CLONE: pCIB146  
; FEATURE:  
; NAME/KEY: RBS  
; LOCATION: 245..251  
; OTHER INFORMATION: /note= "potential ribosome binding  
; OTHER INFORMATION: site"  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 256..3006  
; OTHER INFORMATION: /product= "LemA"  
; OTHER INFORMATION: /note= "LemA coding sequence."

US-08-761-258-8  
Query Match 13.2%; Score 32.6; DB 1; Length 3186;  
Best Local Similarity 52.6%; Pred. No. 7.3;  
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QY 82 CTGCACACCGCTCGCAGCTGGGTCCAGCCCTCGCGCTGACATGCGGAGGCTGGAC 141  
Db 982 CAGGAAGAACTGCAGCACAGATCGACCCAGGCCAGGACGCTCGGCAAAACCTGGAG 1041  
QY 142 TGGAGTGACAGCTG 156  
Db 1042 ACCATCGAGATCCAG 1056

## RESULT 7

US-08-977-306-8  
; Sequence 8, Application US/08977306  
; Patent No. 5955348  
; GENERAL INFORMATION:  
; APPLICANT: Ligon, James M.  
; APPLICANT: Hill, Dwight S.  
; APPLICANT: Gaffney, Thomas D.  
; APPLICANT: Torkewitz, Nancy

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1  / APPLICANT:  Stafford, Jill M.
2  / TITLE OF INVENTION:  Genetically Modified Pseudomonas Strains
3  / TITLE OF INVENTION:  With Enhanced Biocontrol Activity
4  / NUMBER OF SEQUENCES:  11
5  / CORRESPONDENCE ADDRESS:
6  / ADDRESSEE:  No. 5955348artis Corporation
7  / STREET:  3054 Cornwallis Road
8  / CITY:  Research Triangle Park
9  / STATE:  NC
10 / COUNTRY:  USA
11 / ZIP:  27709
12 / COMPUTER READABLE FORM:
13 / MEDIUM TYPE:  Floppy disk
14 / COMPUTER:  IBM PC compatible
15 / OPERATING SYSTEM:  PC-DOS/MS-DOS
16 / SOFTWARE:  PatentIn Release #1.0, Version #1.30
17 / CURRENT APPLICATION DATA:
18 / APPLICATION NUMBER:  US/08/977,306
19 / FILING DATE:
20 / CLASSIFICATION:  435
21 / ATTORNEY/AGENT INFORMATION:
22 / NAME:  Meigs, J. Timothy
23 / REGISTRATION NUMBER:  38,241
24 / TELECOMMUNICATION INFORMATION:
25 / TELEPHONE:  (919) 541-8587
26 / TELEFAX:  (919) 541-8689
27 / INFORMATION FOR SEQ ID NO:  8:
28 / SEQUENCE CHARACTERISTICS:
29 / LENGTH:  3186 base pairs
30 / TYPE:  nucleic acid
31 / STRANDEDNESS:  single
32 / TOPOLOGY:  linear
33 / MOLECULE TYPE:  DNA (genomic)
34 / HYPOTHETICAL:  NO
35 / ANTI-SENSE:  NO
36 / ORIGINAL SOURCE:
37 / ORGANISM:  Pseudomonas fluorescens
38 / STRAIN:  CGA267356 (aka MOCG134 and aka BL915)
39 / IMMEDIATE SOURCE:
40 / CLONE:  pCIB146
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45 / OTHER INFORMATION:  site"
46 / NAME/KEY:  misc_feature
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49 / OTHER INFORMATION:  /note= "Lema coding sequence."
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|    | Query Match           | 13.2%   | Score 32.6;    | DB 2;     | Length 3186; |
|----|-----------------------|---|----------------|-----------|--------------|
|    | Best Local Similarity | 52.6%;  | Pred. No. 7.3; |           |              |
|    | Matches 71;           | Conservative 0;   | Mismatches 64; | Indels 0; | Gaps 0;      |
| QY | 22                    | CAGGACGAGCTCGGATGGCGGAGCCCTGAACAGGAGGAGAGTTCCTGCTCCTCC    | 81             |           |              |
|    |                       |   |                |           |              |
| Db | 922                   | CAGGAATCGACGAGCTGGGTCATCAACGCGATGCGCGCACCCCTGCGAATGCC     | 981            |           |              |
|    |                       |   |                |           |              |
| QY | 82                    | CTGCACAACCGCTGCGCAGCTGGGTCCAGCCCTCGCGCTGACATGCGGAGGCTGGAC | 141            |           |              |
|    |                       |   |                |           |              |
| Db | 982                   | CAGGAAGAATGCAGCACAGCATGACAGCCACCGAGGAGCTCGGCGAANAACCTGGAG | 1041           |           |              |
|    |                       |   |                |           |              |
| QY | 142                   | TGGAGTGACAGCCTG   | 156            |           |              |
|    |                       |   |                |           |              |
| Db | 1042                  | ACCATCGAGATCCAG   | 1056           |           |              |
|    |                       |   |                |           |              |

RESULT 8  
US-08-870-126-7  
; Sequence 7, Application US/08870126  
; Patent No. 6048702

```

> GENERAL INFORMATION:
> APPLICANT: Prendergast, George C.
> APPLICANT: Sakamuro, Daitoku
> TITLE OF INVENTION: Murine and Human Box-Dependent
> TITLE OF INVENTION: MYC-Interacting Protein (Bin1) and Uses Therefor
> NUMBER OF SEQUENCES: 14
> CORRESPONDENCE ADDRESS:
> ADDRESSEE: Howson and Howson
> STREET: Spring House Corporate Cntr., P O Box 457
> CITY: Spring House
> STATE: Pennsylvania
> COUNTRY: USA
> ZIP: 19477
> COMPUTER READABLE FORM:
> MEDIUM TYPE: Floppy disk
> COMPUTER: IBM PC compatible
> OPERATING SYSTEM: PC-DOS/MS-DOS
> SOFTWARE: PatentIn Release #1.0, Version #1.30
> CURRENT APPLICATION DATA:
> APPLICATION NUMBER: US/08/870,126
> FILING DATE:
> CLASSIFICATION: 530
> PRIOR APPLICATION DATA:
> APPLICATION NUMBER: US 08/435,454
> FILING DATE: 05-MAY-1995
> PRIOR APPLICATION DATA:
> APPLICATION NUMBER: US 08/652,972
> FILING DATE: 24-MAY-1996
> ATTORNEY/AGENT INFORMATION:
> NAME: Kodroff, Cathy A.
> REGISTRATION NUMBER: 33,980
> REFERENCE/DOCKET NUMBER: WST60CUSA
> TELECOMMUNICATION INFORMATION:
> TELEPHONE: 215-540-9200
> TELEFAX: 215-540-5818
> INFORMATION FOR SEQ ID NO: 7:
> SEQUENCE CHARACTERISTICS:
> LENGTH: 2808 base pairs
> TYPE: nucleic acid
> STRANDEDNESS: double
> TOPOLOGY: unknown
> MOLECULE TYPE: DNA (genomic)
> FEATURE:
> NAME/KEY: exon
> LOCATION: 2051..2294
> OTHER INFORMATION: /note= "exon 1"
> FEATURE:
> NAME/KEY: CDS
> LOCATION: 2211..2213
> OTHER INFORMATION: /note= "start site for translation
> OTHER INFORMATION: initiation"
> LS-08-870-126-7

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|    | Query Match           | 13.1%  | Score 32.4;  | DB 3;           | Length 2808;      |
|----|-----------------------|--|--------------|-----------------|-------------------|
|    | Best Local Similarity | 46.4%;   | Pred. No. 8; |                 |                   |
|    | Matches 102;          | Conservative   | 0;           | Mismatches 118; | Indels 0; Gaps 0; |
| QY | 28                    | CAGGCTCCGATGGCGGAGCCCTCAACAGGAAGAGAGATTTTCTGCTCCTCTCCCTGCAC  | 87           |                 |                   |
| Db | 2449                  | CAGGCTCGTTCCCGGCGCTCTGGTGCCCTCTTAGGTTTGGCTCTCTGCTCCTCCAC     | 2508         |                 |                   |
| QY | 88                    | AACCGCTGCGCAGCTGGGTCCAGCCCGCTCGGCTGACATGCGGAGCGTGACTGGATG    | 147          |                 |                   |
| Db | 2509                  | ACCGCGCGGGCAGGACAGGGCCCGCTTTGCACTTTCGTGGCTCGGCTGCACAGCAGT    | 2568         |                 |                   |
| QY | 148                   | GACAGCTGCGCCCAACTGGCTCAAGCAGGCGAGCCCTCTGTGGAAATCCCAACCCCGAGC | 207          |                 |                   |
| Db | 2569                  | GGCGGGCCCTGCTCCAGGGCTTCTCAGGCGGGCTTCAAGCTACCCCTTTGGAAAGC     | 2628         |                 |                   |
| QY | 208                   | CTGSCATCCGGCCCTGTGGCGCACCCCTCGAAGTGGGCTGGA                   | 247          |                 |                   |
| Db | 2629                  | CAAGGGCNGGAAGCTTGGGAAGGCAGTTGGTGACCTCNA                      | 2668         |                 |                   |



## RESULT 9

US-09-445-247-7  
 ; Sequence 7, Application US/09445247  
 ; Patent No. 6410238  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wistar Institute of Anatomy & Biology  
 ; Prendergast, George C.  
 ; Sakamuro, Daitoku  
 ; TITLE OF INVENTION: Box-Dependent MYC-Interacting Protein  
 ; (Bin1) Compositions and Uses Therefor  
 ; NUMBER OF SEQUENCES: 22  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Howson and Howson  
 ; STREET: Spring House Corporate Cntr, P O Box 457  
 ; CITY: Spring House  
 ; STATE: Pennsylvania  
 ; COUNTRY: USA  
 ; ZIP: 19477

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/445,247  
 FILING DATE: 03-Dec-1999  
 CLASSIFICATION: <Unknown>

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/870,126

## FILING DATE: 06-JUN-1997

## ATTORNEY/AGENT INFORMATION:

NAME: Bak, Mary E.

## REGISTRATION NUMBER: 31,215

## REFERENCE/DOCKET NUMBER: WST60DPCT

## TELECOMMUNICATION INFORMATION:

TELEPHONE: 215-540-9200

TELEFAX: 215-540-5818

## INFORMATION FOR SEQ ID NO: 7:

## SEQUENCE CHARACTERISTICS:

LENGTH: 2808 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: unknown

MOLECULE TYPE: DNA (genomic)

FEATURE:

NAME/KEY: exon

LOCATION: 2051..2294

OTHER INFORMATION: /note= "exon 1"

## FEATURE:

LOCATION: 2211..2213

OTHER INFORMATION: /note= "start site for translation

initiation"

SEQUENCE DESCRIPTION: SEQ ID NO: 7:

US-09-445-247-7

## Query Match

Best Local Similarity 13.1%; Score 32.4; DB 4; Length 2808;

Matches 102; Conservative 0; Mismatches 118; Indels 0; Gaps 0;

Qy 28 CAGGCTCCGATCGCGGAGCCCTGAACAGGAGGAGTTCTTGTCTCTCCCTGCAC 87

Db 2449 CAGGCTGGTTCCTCCCGCGCTCTGGTGGCCCTTTAGGTTTGGCTCTGTCTCCCCAC 2508

Qy 88 AACCCCTCGGAGCTGGGTTCAGGCCCCCTGGCGCTGACATGGGAGGCTGGACTGGAGT 147

Db 2509 ACCCGCGCGGCGGAGGACAGAGGCGCCGCTTGCACCTTCGTGCTCGGTGCACAGT 2568

Qy 148 GACAGCCTGGCCCAACTGGCTCAAGCAGGCGAGCCCTCTGTGGAATCCCAACCCGAGC 207

Db 2569 GCGCGCCCTGCTCCAGGCTCTTCTCAGGCGCGGCTCCAAAGCTACCCCTTTTGAAGC 2628

Qy 208 CTGGCATCCGGCCTGTGGCGCACCCCTGTCAAGTGGGCTGGA 247

Db 2629 CAAGGGCCNGGAAGCTTGGGAAGCCAGTTGGTGACCTCNA 2668

## RESULT 10

US-08-125-468-1

; Sequence 1, Application US/08125468

; Patent No. 5589385

; GENERAL INFORMATION:

; APPLICANT: Ryan, Michael J.

; APPLICANT: Lotvin, Jason A.

; APPLICANT: Strathy, Nancy

; APPLICANT: Fantini, Susan E.

; TITLE OF INVENTION: Cloning of the biosynthetic pathway for

; chlorotetracycline and tetracycline formation and cosmids

; TITLE OF INVENTION: useful therein

; NUMBER OF SEQUENCES: 1

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: American Cyanamid Company

; STREET: One Cyanamid Plaza

; CITY: Wayne

; STATE: New Jersey

; COUNTRY: USA

; ZIP: 07470

; COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/125,468

FILING DATE: 22-SEP-1993

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Tsevdos, Estelle J

REGISTRATION NUMBER: 31,145

REFERENCE/DOCKET NUMBER: 31,255-02

TELECOMMUNICATION INFORMATION:

TELEPHONE: (201)831-3241

TELEFAX: (201)831-3305

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 30001 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

US-08-125-468-1

## Query Match

Best Local Similarity 13.1%; Score 32.4; DB 1; Length 30001;

Matches 102; Conservative 0; Mismatches 116; Indels 0; Gaps 0;

Qy 17 AGCTGCAGGACGAGCTCCGATGGCGGAGCCCTGAACAGGAGGAGAGTTCTTGTCTCC 76

Db 17517 AGGAAGTGGAGCGGCGCTGCTGGAGTGAACAGCAAGCTGTCAACAACTCTTCTATCT 17576

Qy 77 TCTCCTGCACAAACCGCTGCGCAGCTGGGTGCTCAGCCCTGCGGCTGACATCGGAGGC 136

Db 17577 CTTTCTCGCACTACCGCTGTGGAACCTGCTTCCGGATCTGGGCTCGGCCAGCGTGA 17636

Qy 137 TGGAGTGGAGTACAGAGCTGGCCCACTGCTCAAGCGAGGAGCCCTCTGTGTGGAATCC 196

Db 17637 TCGGGGCAAGCGCATCTCAACGCACTGACCAAGGAGACCGGCGAGCAGACC 17696

Qy 197 CAACCCCGAGCTGGCATCCGCGCTGTGGCGCACCCCTG 234

Db 17697 ACTGCCAGCGCTGGACGACCAACCGCTACCCCGGCGCTG 17734

## RESULT 11

US-08-474-933-1

```

; Sequence 1, Application US/08474933
; Patent No. 5866410
; GENERAL INFORMATION:
; APPLICANT: Ryan, Michael J.
; APPLICANT: Lotvin, Jason A.
; APPLICANT: Strathy, Nancy
; APPLICANT: Fantini, Susan E.
; TITLE OF INVENTION: Cloning of the biosynthetic pathway for
; TITLE OF INVENTION: chlortetracycline and tetracycline formation and cosmid
; TITLE OF INVENTION: useful therein
; NUMBER OF SEQUENCES: 1
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: American Cyanamid Company
; CITY: Wayne
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07470
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/474,933
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/125,468
; FILING DATE: 22-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Tsevdos, Estelle J.
; REGISTRATION NUMBER: 31,145
; REFERENCE/DOCKET NUMBER: 31,255-02
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (201)831-3241
; TELEFAX: (201)831-3305
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30001 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-474-933-1

Query Match 13.1%; Score 32.4; DB 2; Length 30001;
Best Local Similarity 46.8%; Pred. No. 12;
Matches 102; Conservative 0; Mismatches 116; Indels 0; Gaps 0;

QY 17 AGCTCAGGAGCGCTCCGATGGCGGAGCCCTGAACAGGAGGAGTTCCTTGCTCC 76
Db 17517 AGGAAGTGGAGGAGGCGCTGCTGGAGTGGACAGACAGCTGGTCAACAACCTCCTTCATCT 17576

QY 77 TCTCCTGCAACACCGCCCTGCGAGCTGGGTCCAGCCCTCGGGCTGACATGCGGAGGC 136
Db 17577 CTTCTCGCACTACCGCTGTGGAACCTGCTTCCGGATCTGGGCTCGGCCAGCGTGA 17636

QY 137 TGGACTGGAGTACACCTGGCCCACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCC 196
Db 17637 TCGGGGCGAAGCGCATCTCAAGCACTGACACAGGACACAGGAGCGGCGACACACGCC 17696

QY 197 CAACCCCGAGCCTGGCATCGGCTGTGGCGCACCCCTG 234
Db 17697 ACTGCCAGGCGTGGAGCACACCCGTACCCGGSCCTG 17734

RESULT 12
US-09-370-838-229/c
; Sequence 229, Application US/09370838
; Patent No. 644425
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.

```

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; APPLICANT: Lodes, Michael J.
; APPLICANT: Mohamath, Heather
; APPLICANT: Secretist, Heather
; TITLE OF INVENTION: COMPOUNDS FOR THERAPY AND DIAGNOSIS OF
; TITLE OF INVENTION: LUNG CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.475C1
; CURRENT APPLICATION NUMBER: US/09/370,838
; CURRENT FILING DATE: 1999-08-09
; EARLIER APPLICATION NUMBER: US 09/285,323
; EARLIER FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 289
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 229
; LENGTH: 465
; TYPE: DNA
; ORGANISM: Homo sapien
; US-09-370-838-229

Query Match 13.0%; Score 32.2; DB 4; Length 465;
Best Local Similarity 50.3%; Pred. No. 6.7;
Matches 79; Conservative 0; Mismatches 78; Indels 0; Gaps 0;

QY 8 GGCACCCCGAGCTGCAGGAGCGGCTCCGATGGCGGAGCCCTGAACAGGAGGAGGAGTT 67
Db 339 GGCAACGCCCTTTAGGAGGCTCAGAAAAGAGATCTCTGCTTGGCTAATGATCGGAGTT 280

QY 68 TCTTGCTCTCTCCCTGCACAAACCGCTGCGCAGCTGGGTCCAGCCCTCGGCTGACA 127
Db 279 AGTTCTCCACGACITTTGATGAGTTCATCTGCAGTTGCCCTCCCGCTTCATACCACTGCCA 220

QY 128 TCGGAGGCTGGAGTGGAGTGACAGCTGGCCCAACT 164
Db 219 TCATCATACTGCAAGTTTGGCACAACTCTCTGCATCT 183

RESULT 13
US-09-194-905-7/c
; Sequence 7, Application US/09194905
; Patent No. 6306627
; GENERAL INFORMATION:
; APPLICANT: DECKER, Heinrich
; TITLE OF INVENTION: ISOLATION OF THE BIOSYNTHESIS GENES FOR
; TITLE OF INVENTION: PSEUDO-OLIGOSACCHARIDES FROM STREPTOMYCES GLAUCESCENS
; TITLE OF INVENTION: GLA.O AND THEIR USE
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/194,905
; FILING DATE: 29-JUL-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/EP97/02826
; FILING DATE: 30-MAY-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: DE 196222783.6
; FILING DATE: 07-JUN-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Granados, Patricia D.
; REGISTRATION NUMBER: 33,683
; REFERENCE/DOCKET NUMBER: 026083/0193
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300

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;
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 6854 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-09-194-905-7

Query Match          13.0%; Score 32.2; DB 4; Length 6854;
Best Local Similarity 47.7%; Pred. No. 11;
Matches 94; Conservative 0; Mismatches 103; Indels 0; Gaps 0;

QY 36 GATGCCGGAGCCCTGACAGGAAGAGAGTTCTTGTCTCTCCCTGCACAAACGCGCT 95
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Db 1077 GATGCCGGCCGCGCGCCACGCTGAGGTCTGTCAGCGCGACGGCTGATCGACGCGCT 1018

QY 96 GCGCAGCTGGTCCAGCCCTCGGGCTGACATCGGAGGCTGGAGTGACAGCCT 155
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Db 1017 GCGGTCTCTCGCGAGCTCATCCAGGAGCGGCTGCGCGCCCTGGAGTCCCGCTTCCCCCA 958

QY 156 GGCCCAACTGCTCAAGCCAGGCGAGCCCTCTGTGATATCCCAACCCGAGCCTGGCATC 215
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 957 GCTCGGCAGGTAGCGGCTCGGACTCTGTGGGGCTGGAGTTCGTACCGAGCGCGT 898

QY 216 CGGCTGTGGCGCACCC 232
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 897 CGGCGGGCACCCGCC 881

RESULT 14
US-07-642-734C-3
; Sequence 3, Application US/07642734C
; Patent No. 5824513
; GENERAL INFORMATION:
; APPLICANT: Katz, L
; APPLICANT: Donadio, S
; APPLICANT: Mcalpine, J B
; TITLE OF INVENTION: Recombinant DNA Method for Producing
; TITLE OF INVENTION: Erythromycin Analogs
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Edward H. Gorman
; STREET: Abbott Laboratories D377/AP6D-2 One Abbott
; STREET: Park Rd
; CITY: Abbott Park
; STATE: IL
; COUNTRY: US
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/642,734C
; FILING DATE: 17-JAN-91
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Danckers, Andreas M
; REGISTRATION NUMBER: 32652
; REFERENCE/DOCKET NUMBER: 4952.US.01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 708-937-9396
; TELEFAX: 708-938-2623
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20235 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Saccharopolyspora erythraea
; STRAIN: NRRL 238
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 19..10722
; OTHER INFORMATION: /codon_start= 19
; OTHER INFORMATION: /function= "gene eryA"
; OTHER INFORMATION: /product= "eryA ORF2 encoding modules 3 & 4 for
; OTHER INFORMATION: 6-deoxyerythronolide B"
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; NAME/KEY: misc_feature
; LOCATION: 19..4470
; OTHER INFORMATION: /function= "approximate span of
; OTHER INFORMATION: module 3"
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 97..1482
; OTHER INFORMATION: /function= "approximate span of
; OTHER INFORMATION: beta-ketoacyl ACP synthase of module 3"
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; OTHER INFORMATION: acyl carrier domain of module 3"
; FEATURE:
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; LOCATION: 4471..10722
; OTHER INFORMATION: /function= "approximate span of
; OTHER INFORMATION: module 4"
; FEATURE:
; NAME/KEY: misc_feature
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Best Local Similarity 52.6%; Pred. No. 13;
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; Sequence 3, Application US/08439009A
; Patent No. 6004787
; GENERAL INFORMATION:
; APPLICANT: Donadio, S
; APPLICANT: Katz, L
; APPLICANT: McAlpine, J B
; TITLE OF INVENTION: Method of Directing Biosynthesis of
; TITLE OF INVENTION: Specific Polyketides
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Steven F. Weinstock
; STREET: Abbott Laboratories D377/AP6D-2 One Abbott
; STREET: Park Rd
; CITY: Abbott Park
; STATE: IL
; COUNTRY: US
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/439,009A
; FILING DATE: 11-MAY-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Casuto, Dianne
; REGISTRATION NUMBER: 40,943
; REFERENCE/DOCKET NUMBER: 4952.US.D1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847-938-3137
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20235 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
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; Best Local Similarity 52.6%; Pred. No. 13;
; Matches 70; Conservative 0; Mismatches 63; Indels 0; Gaps 0;
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; QY 76 CTCTCCCTGCACAAACCGCGCTGGCGAGTGGTGCAGCCCCCTGGCGGCTGCATGCGGAGG 135
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; QY 136 CTGGACTGGAGTGACAGCGCTGGCCCAACTGGCTCAAGCCAGGCGAGCCCTCTGTGGATC 195
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; QY 196 CCAACCCCGAGCC 208
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GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: December 28, 2002, 20:22:13 ; Search time 13.1055 Seconds  
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7656.298 Million cell updates/sec

Title: US-09-944-896-49\_COPY\_201\_447

Perfect score: 247

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Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 363474 seqs, 203117208 residues

Total number of hits satisfying chosen parameters: 726948

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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| 2          | 247   | 100.0         | 1876   | 9     | US-09-944-403-49  |
| 3          | 247   | 100.0         | 1876   | 9     | US-09-944-896-49  |
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| 6          | 247   | 100.0         | 1876   | 10    | US-09-944-449-49  |
| 7          | 247   | 100.0         | 1876   | 10    | US-09-944-457-49  |
| 8          | 247   | 100.0         | 1876   | 10    | US-09-945-587-49  |
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| 18         | 245.4 | 99.4          | 1923   | 9     | US-10-042-141-12  |
| 19         | 245.4 | 99.4          | 1923   | 10    | US-09-726-643-12  |

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|   | 45 | 35   | 14.2 | 404   | 10 | US-09-960-352-9210 | Sequence 9210, Ap |

## ALIGNMENTS

### RESULT 1

US-09-944-413-49  
; Sequence 49, Application US/099444413  
; Patent No. US20020156004A1

### GENERAL INFORMATION:

; APPLICANT: Baker, Kevin  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kljavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; TITLE OF INVENTION: ACIDS ENCODING THE SAME

; FILE REFERENCE: P2548PIC1

; CURRENT APPLICATION NUMBER: US/09/944,413

; CURRENT FILING DATE: 2001-09-26

; PRIOR APPLICATION NUMBER: 09/866,028

; PRIOR FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: 60/067,411

; PRIOR FILING DATE: December 3, 1997

; PRIOR APPLICATION NUMBER: 60/069,334

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,335

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,278

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,425

; PRIOR FILING DATE: December 12, 1997

; PRIOR APPLICATION NUMBER: 60/069,696

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,694

; PRIOR FILING DATE: December 16, 1997

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; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020156004A,ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020156004A,ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
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; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
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; PRIOR FILING DATE: February 28, 2001
; SEQ ID NO 49
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US-09-944-413-49

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Best Local Similarity 100.0%; Pred. No. 1.2e-54;
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; Patent No. US20020165143A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,403
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
```



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; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/234,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020165143A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020165143A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 49
; LENGTH: 1876
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-944-403-49

Query Match      100.0%; Score 247; DB 9; Length 1876;
Best Local Similarity 100.0%; Pred. No. 1.2e-54;
Matches 247; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGTGTGCGCCACCCAGCTGCGAGGACGAGCTCCGATGCGCGGAGCCCTGACAGGAAG 60
    |||||||
Db 201 GAGGTGTGCGCCACCCAGCTGCGAGGACGAGCTCCGATGCGCGGAGCCCTGACAGGAAG 260
    |||||||

QY 61 GAGAGTTTCTTGTCTCTCTCCCTGCGACACCGCTGCGGACGCTGGGTCCAGCCCCCTGCG 120
    |||||||
Db 261 GAGAGTTTCTTGTCTCTCTCCCTGCGACACCGCTGCGGACGCTGGGTCCAGCCCCCTGCG 320
    |||||||

QY 121 GCTGACATGCGGAGGCTGGACTGGAGTGACAGCTGGCCCAACTGGCTCAAGCCAGGCA 180
    |||||||
Db 321 GCTGACATGCGGAGGCTGGACTGGAGTGACAGCTGGCCCAACTGGCTCAAGCCAGGCA 380
    |||||||

QY 181 GCCCTCTGTGGAATCCCAACCCGAGCCTGGCATCGGCTGTGGCGCACCCCTGCAAGTG 240
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Db 381 GCCTCTGTGGAATCCCAACCCGAGCCTGGCATCGGCTGTGGCGCACCCCTGCAAGTG 440
QY 241 GGCTGGA 247
    |||||||
Db 441 GGCTGGA 447

RESULT 3
US-09-944-896-49
; Sequence 49, Application US/09944896
; Patent No. US20020168715A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerlitsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,896
; CURRENT FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
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|    | Query Match           | 100.0%   | Score        | 247     | DB         | 10 | Length | 1876 |
|----|-----------------------|--|--------------|---------|------------|----|--------|------|
|    | Best Local Similarity | 100.0%   | Pred. No.    | 1.2e-54 |            |    |        |      |
|    | Matches               | 247  | Conservative | 0       | Mismatches | 0  | Indels | 0    |
|    | Gaps                  | 0  |              |         |            |    |        |      |
| QY | 1                     | GAGGTGTGGCCACCCAGCTGCAGGACAGCTCCGATGCCGAGGCCCTGAACAGGAAG   | 60           |         |            |    |        |      |
|    |                       |  |              |         |            |    |        |      |
| Db | 201                   | GAGGTGTGGCCACCCAGCTGCAGGACAGCTCCGATGCCGAGGCCCTGAACAGGAAG   | 260          |         |            |    |        |      |
|    |                       |  |              |         |            |    |        |      |
| QY | 61                    | GAGAGTTTCWTTCTCTCCCTGCGACAAACGGCTGCGCGAGCTGGTGGCCAGCCCTCGC | 120          |         |            |    |        |      |

; PRIOR FILING DATE: February 25, 1998  
 ; PRIOR APPLICATION NUMBER: 60/112,850  
 ; PRIOR FILING DATE: December 16, 1998  
 ; PRIOR APPLICATION NUMBER: 60/113,296  
 ; PRIOR FILING DATE: December 22, 1998  
 ; PRIOR APPLICATION NUMBER: 60/146,222  
 ; PRIOR FILING DATE: July 28, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US98/19330  
 ; PRIOR FILING DATE: September 16, 1998  
 ; PRIOR APPLICATION NUMBER: PCT/US98/25108  
 ; PRIOR FILING DATE: December 1, 1998  
 ; PRIOR APPLICATION NUMBER: 60/216,021  
 ; PRIOR FILING DATE: December 16, 1998  
 ; PRIOR APPLICATION NUMBER: 60/218,317  
 ; PRIOR FILING DATE: December 22, 1998  
 ; PRIOR APPLICATION NUMBER: 60/254,311  
 ; PRIOR FILING DATE: March 3, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/12252  
 ; PRIOR FILING DATE: June 22, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090  
 ; PRIOR FILING DATE: September 15, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28409  
 ; PRIOR FILING DATE: NO. US20020127643A1ember 30, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313  
 ; PRIOR FILING DATE: NO. US20020127643A1ember 30, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28301  
 ; PRIOR FILING DATE: December 1, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095  
 ; PRIOR FILING DATE: December 16, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US00/03565  
 ; PRIOR FILING DATE: February 11, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414  
 ; PRIOR FILING DATE: February 22, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/05841  
 ; PRIOR FILING DATE: March 2, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/08439  
 ; PRIOR FILING DATE: March 30, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/14042  
 ; PRIOR FILING DATE: May 22, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/20710  
 ; PRIOR FILING DATE: July 28, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/32678  
 ; PRIOR FILING DATE: December 1, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US01/06520  
 ; PRIOR FILING DATE: February 28, 2001  
 ; NUMBER OF SEQ ID NOS: 120  
 ; SEQ ID NO 49  
 ; LENGTH: 1876  
 ; TYPE: DNA  
 ; ORGANISM: Homo Sapien  
 ; US-09-945-587-49  
 ; US-09-945-015-49  
 ; Sequence 49, Application US/09945015  
 ; Patent No. US20020132768A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Eaton, Dan  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Gerritsen, Mary  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul  
 ; APPLICANT: Grimaldi, Christopher  
 ; APPLICANT: Gurney, Austin  
 ; APPLICANT: Hillan, Kenneth  
 ; APPLICANT: Kljavin, Ivar  
 ; APPLICANT: Napier, Mary  
 ; APPLICANT: Roy, Margaret  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Wood, William  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; TITLE OF INVENTION: ACIDS ENCODING THE SAME  
 ; FILE REFERENCE: P2548P1C1  
 ; CURRENT APPLICATION NUMBER: US/09/945,015  
 ; CURRENT FILING DATE: 2001-09-26  
 ; PRIOR APPLICATION NUMBER: 09/866,028  
 ; PRIOR FILING DATE: 2001-05-25  
 ; PRIOR APPLICATION NUMBER: 60/067,411  
 ; PRIOR FILING DATE: December 3, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,334  
 ; PRIOR FILING DATE: December 11, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,335  
 ; PRIOR FILING DATE: December 11, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,278  
 ; PRIOR FILING DATE: December 11, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,425  
 ; PRIOR FILING DATE: December 12, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,696  
 ; PRIOR FILING DATE: December 16, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,894  
 ; PRIOR FILING DATE: December 16, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,702  
 ; PRIOR FILING DATE: December 16, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,870  
 ; PRIOR FILING DATE: December 17, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,873  
 ; PRIOR FILING DATE: December 17, 1997  
 ; PRIOR APPLICATION NUMBER: 60/068,017  
 ; PRIOR FILING DATE: December 18, 1997  
 ; PRIOR APPLICATION NUMBER: 60/070,440  
 ; PRIOR FILING DATE: January 5, 1998  
 ; PRIOR APPLICATION NUMBER: 60/074,086  
 ; PRIOR FILING DATE: February 9, 1998  
 ; PRIOR APPLICATION NUMBER: 60/074,092  
 ; PRIOR FILING DATE: February 9, 1998  
 ; PRIOR APPLICATION NUMBER: 60/075,945  
 ; PRIOR FILING DATE: February 25, 1998  
 ; PRIOR APPLICATION NUMBER: 60/112,850  
 ; PRIOR FILING DATE: December 16, 1998  
 ; PRIOR APPLICATION NUMBER: 60/113,296  
 ; PRIOR FILING DATE: December 22, 1998  
 ; PRIOR APPLICATION NUMBER: 60/146,222  
 ; PRIOR FILING DATE: July 28, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US98/19330  
 ; PRIOR FILING DATE: September 16, 1998  
 ; PRIOR APPLICATION NUMBER: PCT/US98/25108  
 ; PRIOR FILING DATE: December 1, 1998  
 ; PRIOR APPLICATION NUMBER: 09/216,021

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; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 49
; LENGTH: 1876
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-945-015-49

Query Match          100.0%; Score 247; DB 10; Length 1876;
Best Local Similarity 100.0%; Pred. No. 1.2e-54;
Matches 247; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGTGTGCGCCACCCAGCTGCGAGGAGCGCTCCGATGCGCGGAGCCCTGAACGGAAG 60
    |||||
Db 201 GAGGTGTGCGCCACCCAGCTGCGAGGAGCGCTCCGATGCGCGGAGCCCTGAACGGAAG 260
    |||||
QY 61 GAGAGTTTCTTGCTCTCTCCCTGCGACAAACCGCTGCGAGCTGGGTCCAGCCCTCGCG 120
    |||||
Db 261 GAGAGTTTCTTGCTCTCTCCCTGCGACAAACCGCTGCGAGCTGGGTCCAGCCCTCGCG 320
    |||||
QY 121 GCTGACATCGGAGGCTGAGCTGAGTGAGAGCTGCGCCCACTGGCTCAAGCCAGGGCA 180
    |||||
Db 321 GCTGACATCGGAGGCTGAGCTGAGTGAGAGCTGCGCCCACTGGCTCAAGCCAGGGCA 380
    |||||
QY 181 GGCCTCTGTGGAATCCCAACCCGAGCGCTGGCATCGCGGCTGTGGCCACCCCTCAAGTG 240
    |||||
Db 381 GGCCTCTGTGGAATCCCAACCCGAGCGCTGGCATCGCGGCTGTGGCCACCCCTCAAGTG 440
    |||||
QY 241 GCGTGA 247
Db 441 GCGTGA 447

RESULT 10
US-09-944-396-49
; Sequence 49, Application US/09944396
; Patent No. US20020132981A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
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; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548PIC1
; CURRENT APPLICATION NUMBER: US/09/944,396
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
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; PRIOR FILING DATE: December 17, 1997
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; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020132981A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
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; PRIOR FILING DATE: No. US20020132981A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 49
; LENGTH: 1876
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-944-396-49

Query Match      100.0%; Score 247; DB 10; Length 1876;
Best Local Similarity 100.0%; Pred. No. 1.2e-54;
Matches 247; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGTGTGGCCACCCAGCTGCAGGAGCAGCTCCGATGGCCGGAGCCCTGAACAGGAAG 60
Db 201 GAGGTGTGGCCACCCAGCTGCAGGAGCAGCTCCGATGGCCGGAGCCCTGAACAGGAAG 260

QY 61 GAGAGTTTCTTGCTCTCCCTGCACAAACCGCTCGCAGCTGGGTCCAGCCCTCGG 120
Db 261 GAGAGTTTCTTGCTCTCCCTGCACAAACCGCTCGCAGCTGGGTCCAGCCCTCGG 320

QY 121 GCTGACATGGCGGAGGTGGACTGAGTGACAGCTGGCCCACTGGCTCAAGCCAGGCA 180
Db 321 GCTGACATGGCGGAGGTGGACTGAGTGACAGCTGGCCCACTGGCTCAAGCCAGGCA 380

QY 181 GCCTCTGTGGTAAATCCCAACCCGAGCTGGCCTGGCCCTGTGGCGCACCTGCAAGTG 240
Db 381 GCCTCTGTGGTAAATCCCAACCCGAGCTGGCCTGGCCCTGTGGCGCACCTGCAAGTG 440

QY 241 GGCTGGA 247
Db 441 GGCTGGA 447

RESULT 11
US-09-944-097-49
; Sequence 49, Application US/09944097
; Patent No. US20020133675A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
```



; PRIOR FILING DATE: May 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/20710  
; PRIOR FILING DATE: July 28, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/32678  
; PRIOR FILING DATE: December 1, 2000  
; PRIOR APPLICATION NUMBER: PCT/US01/06520  
; PRIOR FILING DATE: February 28, 2001  
; NUMBER OF SEQ ID NOS: 120  
; SEQ ID NO 49  
; LENGTH: 1876  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-09-944-097-49

Query Match 100.0%; Score 247; DB 10; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 1.2e-54;  
Matches 247; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GAGGTGTGCGCCACCCAGCTGAGGAGGCTCGATGCGCGGAGCCCTGAACAGGAAG 60  
Db |||||||  
QY 201 GAGGTGTGCGCCACCCAGCTGAGGAGGCTCGATGCGCGGAGCCCTGAACAGGAAG 260  
Db |||||||  
QY 61 GAGAGTTTCTTCTCTCTCTCTGTCACACCGCTGCGAGCTGGTCCAGCCCTCTGCG 120  
Db |||||||  
QY 261 GAGAGTTTCTTCTCTCTCTCTGTCACACCGCTGCGAGCTGGTCCAGCCCTCTGCG 320  
Db |||||||  
QY 121 GCTGATCGGAGGCTGGAGTGGAGTACAGCCCTGGCCCACTGGCTCAAGCCAGGGCA 180  
Db |||||||  
QY 321 GCTGATCGGAGGCTGGAGTGGAGTACAGCCCTGGCCCACTGGCTCAAGCCAGGGCA 380  
Db |||||||  
QY 181 GCCCTCTGGAATCCCAACCCCGAGCTGGAGTGGAGTACAGCCCTGGCCCACTGGCTCAAGCCAGGGCA 440  
Db |||||||  
QY 241 GCCTTGA 247  
Db |||||||  
QY 441 GCCTTGA 447  
Db |||||||

## RESULT 12

US-09-944-432-49  
; Sequence 49, Application US/09944432  
; Patent No. US20020142419A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kljavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/944,432  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998  
; PRIOR APPLICATION NUMBER: 60/074,086  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/074,092  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/075,945  
; PRIOR FILING DATE: February 25, 1998  
; PRIOR APPLICATION NUMBER: 60/112,850  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 60/113,296  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 60/146,222  
; PRIOR FILING DATE: July 28, 1999  
; PRIOR APPLICATION NUMBER: PCT/US98/19330  
; PRIOR FILING DATE: September 16, 1998  
; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: December 1, 1998  
; PRIOR APPLICATION NUMBER: 09/216,021  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 09/218,517  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/234,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020142419A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: No. US20020142419A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December 1, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: December 16, 1999  
; PRIOR APPLICATION NUMBER: PCT/US00/03565  
; PRIOR FILING DATE: February 11, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: February 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: March 2, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/08439  
; PRIOR FILING DATE: March 30, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/14042  
; PRIOR FILING DATE: May 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/20710  
; PRIOR FILING DATE: July 28, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/32678  
; PRIOR FILING DATE: December 1, 2000  
; PRIOR APPLICATION NUMBER: PCT/US01/06520  
; NUMBER OF SEQ ID NOS: 120  
; SEQ ID NO 49  
; LENGTH: 1876  
; TYPE: DNA  
; ORGANISM: Homo Sapien

US-09-944-432-49

Query Match 100.0%; Score 247; DB 10; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 1.2e-54;  
Matches 247; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGTGTGGCCACCCAGCTGCAGGAGCAGCTCCGATGGCCGGAGCCCTGAACAGGAAG 60  
|||||  
DB 201 GAGGTGTGGCCACCCAGCTGCAGGAGCAGCTCCGATGGCCGGAGCCCTGAACAGGAAG 260  
|||||

QY 61 GAGAGTTTCTTGCTCCCTCCCTGCACAAACCCGCTGCGCAGCTGGGTCCAGCCCTGGG 120  
|||||  
DB 261 GAGAGTTTCTTGCTCCCTCCCTGCACAAACCCGCTGCGCAGCTGGGTCCAGCCCTGGG 320  
|||||

QY 121 GCTGACATGGCGGAGCTGGAGTGGAGTGACAGCCTGGGCCCACTGGCTCAAGCCAGGGCA 180  
|||||  
DB 321 GCTGACATGGCGGAGCTGGAGTGGAGTGACAGCCTGGGCCCACTGGCTCAAGCCAGGGCA 380  
|||||

QY 181 GCGCTCTGTGAATCCCAACCCGAGCCTGGCATCCGGCCTGGCGGACCCCTGCAAGTG 240  
|||||  
DB 381 GCGCTCTGTGAATCCCAACCCGAGCCTGGCATCCGGCCTGGCGGACCCCTGCAAGTG 440  
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QY 241 GGCTGGA 247  
DB 441 GGCTGGA 447  
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RESULT 13

US-09-943-762-49

Sequence 49, Application US/09943762  
Patent No. US20020142958A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin  
APPLICANT: Botstein, David  
APPLICANT: Eaton, Dan  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Gerriksen, Mary  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul  
APPLICANT: Grimaldi, Christopher  
APPLICANT: Gurney, Austin  
APPLICANT: Hillan, Kenneth  
APPLICANT: Kljavin, Ivar  
APPLICANT: Napier, Mary  
APPLICANT: Roy, Margaret  
APPLICANT: Tumas, Daniel  
APPLICANT: Wood, William

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME

TITLE REFERENCE: P2548P1C1

CURRENT APPLICATION NUMBER: US/09/943,762

CURRENT FILING DATE: 2001-09-26

PRIOR APPLICATION NUMBER: 09/866,028

PRIOR FILING DATE: 2001-05-25

PRIOR APPLICATION NUMBER: 60/067,411

PRIOR FILING DATE: December 3, 1997

PRIOR APPLICATION NUMBER: 60/069,334

PRIOR FILING DATE: December 11, 1997

PRIOR APPLICATION NUMBER: 60/069,335

PRIOR FILING DATE: December 11, 1997

PRIOR APPLICATION NUMBER: 60/069,278

PRIOR FILING DATE: December 11, 1997

PRIOR APPLICATION NUMBER: 60/069,425

PRIOR FILING DATE: December 12, 1997

PRIOR APPLICATION NUMBER: 60/069,696

PRIOR FILING DATE: December 16, 1997

PRIOR APPLICATION NUMBER: 60/069,694

PRIOR FILING DATE: December 16, 1997

PRIOR APPLICATION NUMBER: 60/069,702

PRIOR FILING DATE: December 16, 1997

PRIOR APPLICATION NUMBER: 60/069,870

PRIOR FILING DATE: December 17, 1997

PRIOR APPLICATION NUMBER: 60/069,873

PRIOR FILING DATE: December 17, 1997

PRIOR APPLICATION NUMBER: 60/068,017

PRIOR FILING DATE: December 18, 1997

PRIOR APPLICATION NUMBER: 60/070,440

PRIOR FILING DATE: January 5, 1998

PRIOR APPLICATION NUMBER: 60/074,086

PRIOR FILING DATE: February 9, 1998

PRIOR APPLICATION NUMBER: 60/074,092

PRIOR FILING DATE: February 9, 1998

PRIOR APPLICATION NUMBER: 60/075,945

PRIOR FILING DATE: February 25, 1998

PRIOR APPLICATION NUMBER: 60/112,850

PRIOR FILING DATE: December 16, 1998

PRIOR APPLICATION NUMBER: 60/113,296

PRIOR FILING DATE: December 22, 1998

PRIOR APPLICATION NUMBER: 60/146,222

PRIOR FILING DATE: July 28, 1999

PRIOR APPLICATION NUMBER: PCT/US98/19330

PRIOR FILING DATE: September 16, 1998

PRIOR APPLICATION NUMBER: PCT/US98/25108

PRIOR FILING DATE: December 1, 1998

PRIOR APPLICATION NUMBER: 09/216,021

PRIOR FILING DATE: December 16, 1998

PRIOR APPLICATION NUMBER: 09/218,517

PRIOR FILING DATE: December 22, 1998

PRIOR APPLICATION NUMBER: 09/254,311

PRIOR FILING DATE: March 3, 1999

PRIOR APPLICATION NUMBER: PCT/US99/12252

PRIOR FILING DATE: June 22, 1999

PRIOR APPLICATION NUMBER: PCT/US99/21090

PRIOR FILING DATE: September 15, 1999

PRIOR APPLICATION NUMBER: PCT/US99/28409

PRIOR FILING DATE: No. US20020142958A1ember 30, 1999

PRIOR APPLICATION NUMBER: PCT/US99/28313

PRIOR FILING DATE: No. US20020142958A1ember 30, 1999

PRIOR APPLICATION NUMBER: PCT/US99/28301

PRIOR FILING DATE: December 1, 1999

PRIOR APPLICATION NUMBER: PCT/US99/30095

PRIOR FILING DATE: December 16, 1999

PRIOR APPLICATION NUMBER: PCT/US00/03565

PRIOR FILING DATE: February 11, 2000

PRIOR APPLICATION NUMBER: PCT/US00/04414

PRIOR FILING DATE: February 22, 2000

PRIOR APPLICATION NUMBER: PCT/US00/05841

PRIOR FILING DATE: March 2, 2000

PRIOR APPLICATION NUMBER: PCT/US00/08439

PRIOR FILING DATE: March 30, 2000

PRIOR APPLICATION NUMBER: PCT/US00/14042

PRIOR FILING DATE: May 22, 2000

PRIOR APPLICATION NUMBER: PCT/US00/20710

PRIOR FILING DATE: July 28, 2000

PRIOR APPLICATION NUMBER: PCT/US00/32678

PRIOR FILING DATE: December 1, 2000

PRIOR APPLICATION NUMBER: PCT/US01/06520

PRIOR FILING DATE: February 28, 2001

NUMBER OF SEQ ID NOS: 120

SEQ ID NO 49

LENGTH: 1876

TYPE: DNA

ORGANISM: Homo Sapien

US-09-943-762-49

Query Match 100.0%; Score 247; DB 10; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 1.2e-54;  
Matches 247; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGTGTGGCCACCCAGCTGCAGGAGCAGCTCCGATGGCCGGAGCCCTGAACAGGAAG 60  
|||||  
DB 201 GAGGTGTGGCCACCCAGCTGCAGGAGCAGCTCCGATGGCCGGAGCCCTGAACAGGAAG 260  
|||||

QY 61 GAGAGTTTCTTGCTCCCTCCCTGCACAAACCCGCTGCGCAGCTGGGTCCAGCCCTGGG 120  
|||||

Db 261 GAGAGTTTCTGCTCTCCCTGACAAACCGCTGGCGAGCTGGGTCCAGCCCTCGG 320  
QY 121 GCTGACATCGGAGGTGGAGTGCAGAGCTGGCCCAACTGGCTCAAGCCAGGCA 180  
Db 321 GCTGACATCGGAGGTGGAGTGCAGAGCTGGCCCAACTGGCTCAAGCCAGGCA 380  
QY 181 GCCTCTGTGGAATCCCAACCCGAGGCTGGCATCCGCGCTGTGGCGCACCTGCAAGTG 240  
Db 381 GCCTCTGTGGAATCCCAACCCGAGGCTGGCATCCGCGCTGTGGCGCACCTGCAAGTG 440  
QY 241 GCGTGA 247  
Db 441 GCGTGA 447  
RESULT 14  
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; Sequence 49, Application US/09944654  
; Patent No. US20020142959A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kljavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/944,654  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998  
; PRIOR APPLICATION NUMBER: 60/074,086  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/074,092  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/075,945  
; PRIOR FILING DATE: February 25, 1998

; PRIOR APPLICATION NUMBER: 60/112,850  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 60/113,296  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 60/146,222  
; PRIOR FILING DATE: July 28, 1999  
; PRIOR APPLICATION NUMBER: PCT/US98/19330  
; PRIOR FILING DATE: September 16, 1998  
; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: December 1, 1998  
; PRIOR APPLICATION NUMBER: 09/216,021  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 09/218,517  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020142959A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: No. US20020142959A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December 1, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: December 16, 1999  
; PRIOR APPLICATION NUMBER: PCT/US00/03565  
; PRIOR FILING DATE: February 11, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: February 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: March 2, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/08439  
; PRIOR FILING DATE: March 30, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/14042  
; PRIOR FILING DATE: May 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/20710  
; PRIOR FILING DATE: July 28, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/32678  
; PRIOR FILING DATE: December 1, 2000  
; PRIOR APPLICATION NUMBER: PCT/US01/06520  
; PRIOR FILING DATE: February 28, 2001  
; NUMBER OF SEQ ID NOS: 120  
; SEQ ID NO 49  
; LENGTH: 1876  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-09-944-654-49

Query Match 100.0%; Score 247; DB 10; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 1.2e-54;  
Matches 247; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCGGAGCCCTGAACAGGAAG 60  
Db 201 GAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCGGAGCCCTGAACAGGAAG 260  
QY 61 GAGAGTTTCTGCTCTCTCCCTGACAAACCGCTGGCGAGCTGGGTCCAGCCCTCGG 120  
Db 261 GAGAGTTTCTGCTCTCTCCCTGACAAACCGCTGGCGAGCTGGGTCCAGCCCTCGG 320  
QY 121 GCTGACATCGGAGGCTGGAGTGCAGAGCTGGCCCAACTGGCTCAAGCCAGGCA 180  
Db 321 GCTGACATCGGAGGCTGGAGTGCAGAGCTGGCCCAACTGGCTCAAGCCAGGCA 380  
QY 181 GCCTCTGTGGAATCCCAACCCGAGGCTGGCATCCGCGCTGTGGCGCACCTGCAAGTG 240  
Db 381 GCCTCTGTGGAATCCCAACCCGAGGCTGGCATCCGCGCTGTGGCGCACCTGCAAGTG 440  
QY 241 GCGTGA 247  
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Db 441 GGCTGGA 447

## RESULT 15

US-09-943-851A-49

; Sequence 49, Application US/09943851A

; Patent No. US20020150976A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin

; APPLICANT: Botstein, David

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Flivaro, Ellen

; APPLICANT: Geri, Mary

; APPLICANT: Goddard, Audrey

; APPLICANT: Goddard, Paul

; APPLICANT: Grimaldi, Christopher

; APPLICANT: Gurney, Austin

; APPLICANT: Hillan, Kenneth

; APPLICANT: Kijav, Ivar

; APPLICANT: Napier, Mary

; APPLICANT: Roy, Margaret

; APPLICANT: Tumas, Daniel

; APPLICANT: Wood, William

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE REFERENCE: P2548P1C1

; CURRENT APPLICATION NUMBER: US/09/943,851A

; CURRENT FILING DATE: 2001-08-30

; PRIOR APPLICATION NUMBER: US/09/866,028

; PRIOR FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: 60/067,411

; PRIOR FILING DATE: December 3, 1997

; PRIOR APPLICATION NUMBER: 60/069,334

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,335

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,278

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,425

; PRIOR FILING DATE: December 12, 1997

; PRIOR APPLICATION NUMBER: 60/069,696

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,694

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,702

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,870

; PRIOR FILING DATE: December 17, 1997

; PRIOR APPLICATION NUMBER: 60/069,873

; PRIOR FILING DATE: December 17, 1997

; PRIOR APPLICATION NUMBER: 60/068,017

; PRIOR FILING DATE: December 18, 1997

; PRIOR APPLICATION NUMBER: 60/070,440

; PRIOR FILING DATE: January 5, 1998

; PRIOR APPLICATION NUMBER: 60/074,086

; PRIOR FILING DATE: February 9, 1998

; PRIOR APPLICATION NUMBER: 60/074,092

; PRIOR FILING DATE: February 9, 1998

; PRIOR APPLICATION NUMBER: 60/075,945

; PRIOR FILING DATE: February 25, 1998

; PRIOR APPLICATION NUMBER: 60/112,850

; PRIOR FILING DATE: December 16, 1998

; PRIOR APPLICATION NUMBER: 60/113,296

; PRIOR FILING DATE: December 22, 1998

; PRIOR APPLICATION NUMBER: 60/146,222

; PRIOR FILING DATE: July 28, 1999

; PRIOR APPLICATION NUMBER: PCT/US98/19330

; PRIOR FILING DATE: September 16, 1998

; PRIOR APPLICATION NUMBER: PCT/US98/25108

; PRIOR FILING DATE: December 1, 1998

; PRIOR APPLICATION NUMBER: 09/216,021

; PRIOR FILING DATE: December 16, 1998

; PRIOR APPLICATION NUMBER: 09/218,517

; PRIOR FILING DATE: December 22, 1998

; PRIOR APPLICATION NUMBER: 09/254,311

; PRIOR FILING DATE: March 3, 1999

; PRIOR APPLICATION NUMBER: PCT/US99/12252

; PRIOR FILING DATE: June 22, 1999

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: September 15, 1999

; PRIOR APPLICATION NUMBER: PCT/US99/28409

; PRIOR FILING DATE: No. US20020150976A1

; PRIOR FILING DATE: PCT/US99/28313

; PRIOR APPLICATION NUMBER: PCT/US99/28301

; PRIOR FILING DATE: December 1, 1999

; PRIOR APPLICATION NUMBER: PCT/US99/30095

; PRIOR FILING DATE: December 16, 1999

; PRIOR APPLICATION NUMBER: PCT/US00/03565

; PRIOR FILING DATE: February 11, 2000

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: February 22, 2000

; PRIOR APPLICATION NUMBER: PCT/US00/05841

; PRIOR FILING DATE: March 2, 2000

; PRIOR APPLICATION NUMBER: PCT/US00/08439

; PRIOR FILING DATE: March 30, 2000

; PRIOR APPLICATION NUMBER: PCT/US00/14042

; PRIOR FILING DATE: May 22, 2000

; PRIOR APPLICATION NUMBER: PCT/US00/20710

; PRIOR FILING DATE: July 28, 2000

; PRIOR APPLICATION NUMBER: PCT/US00/32678

; PRIOR FILING DATE: December 1, 2000

; PRIOR APPLICATION NUMBER: PCT/US01/06520

; PRIOR FILING DATE: February 28, 2001

; NUMBER OF SEQ ID NOS: 120

; SEQ ID NO 49

; LENGTH: 1876

; TYPE: DNA

; ORGANISM: Homo Sapien

US-09-943-851A-49

Query Match 100.0%; Score 247; DB 10; Length 1876;

Best Local Similarity 100.0%; Pred. No. 1.2e-54;

Matches 247; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCGGATGGCGGAGCCCTGAACAGGAAG 60

Db 201 GAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCGGATGGCGGAGCCCTGAACAGGAAG 260

QY 61 GAGAGTTTCTTGTCTCTCCCTGCACAAACCCCTGCAGCTGGTCCAGCCCTCGCG 120

Db 261 GAGAGTTTCTTGTCTCTCCCTGCACAAACCCCTGCAGCTGGTCCAGCCCTCGCG 320

QY 121 GCTGACATGCGGAGCTGGAGTGGAGTGCAGAGCTGGCCCAACTGGCTCAAGCCAGGCA 180

Db 321 GCTGACATGCGGAGCTGGAGTGGAGTGCAGAGCTGGCCCAACTGGCTCAAGCCAGGCA 380

QY 181 GCCTCTGTGGAATCCCAACCCCGAGCTGGCATCCGGCTGTGGCGGACCCCTGCAAGTG 240

Db 381 GCCTCTGTGGAATCCCAACCCCGAGCTGGCATCCGGCTGTGGCGGACCCCTGCAAGTG 440

QY 241 GGCTGGA 247

Db 441 GGCTGGA 447

Search completed: December 28, 2002, 23:04:35

Job time : 21.1055 secs

GenCore version 5.1.3  
Copyright (c) 1993 - 2002 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 28, 2002, 20:45:48 ; Search time 376 Seconds

(without alignments)  
11236.034 Million cell updates/sec

Title: US-09-944-896-49

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Sequence: 1 ctctttgtccaccagccca.....tcagctgaaaaaaaaa 1876

Scoring table: OLIGO\_NUC

Gapop 60.0 , Gapext 60.0

Searched: 2185239 seqs, 1125999159 residues

Word size : 10

Total number of hits satisfying chosen parameters: 1336607

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Database : N\_Geneseq\_101002.\*

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7: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1986.DAT.*
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23: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2001B.DAT.*
24: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2002.DAT.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

| Result No. | Score | Query Match % | Length | ID | Description         |
|------------|-------|---------------|--------|----|---------------------|
| 1          | 1876  | 100.0         | 1876   | 20 | CDNA clone encoding |
| 2          | 1876  | 100.0         | 1876   | 20 | Human PRO347 nucle  |
| 3          | 1876  | 100.0         | 1876   | 21 | CDNA encoding nove  |
| 4          | 1876  | 100.0         | 1876   | 21 | Human PRO347 cDNA.  |
| 5          | 1029  | 54.9          | 1775   | 22 | Human protein havi  |
| 6          | 1029  | 54.9          | 1856   | 20 | Human T139 protein  |
| 7          | 1029  | 54.9          | 1856   | 24 | Human T139 protein  |
| 8          | 1029  | 54.9          | 1923   | 22 | Human secreted pro  |
| 9          | 1008  | 53.7          | 1338   | 20 | Human T139 protein  |

|    |     |      |        |     |                     |                    |
|----|-----|------|--------|-----|---------------------|--------------------|
| 10 | 774 | 41.3 | 1786   | 22  | Human full-length   |                    |
| 11 | 562 | 30.0 | 1519   | 23  | DNA encoding novel  |                    |
| 12 | 485 | 25.9 | 690    | 21  | Human ovarian carc  |                    |
| 13 | 485 | 25.9 | 690    | 24  | Ovarian carcinoma   |                    |
| 14 | 467 | 24.9 | 855    | 21  | Human prostate exp  |                    |
| c  | 15  | 398  | 21.2   | 602 | 23                  | Human protease and |
| 16 | 388 | 20.7 | 1934   | 23  | DNA encoding novel  |                    |
| 17 | 348 | 18.6 | 906    | 23  | DNA encoding novel  |                    |
| 18 | 208 | 11.1 | 517    | 22  | Human EST-derived   |                    |
| 19 | 201 | 10.7 | 512    | 22  | Human CDNA 5'-end   |                    |
| 20 | 201 | 10.7 | 512    | 22  | Human CDNA clone r  |                    |
| 21 | 122 | 6.5  | 1482   | 23  | DNA encoding novel  |                    |
| 22 | 99  | 5.3  | 3660   | 23  | DNA encoding novel  |                    |
| 23 | 99  | 5.3  | 3660   | 23  | DNA encoding novel  |                    |
| c  | 24  | 97   | 480    | 23  | DNA encoding novel  |                    |
| 25 | 94  | 5.0  | 168    | 23  | DNA encoding novel  |                    |
| 26 | 94  | 5.0  | 1239   | 23  | DNA encoding novel  |                    |
| 27 | 86  | 4.6  | 792    | 23  | DNA encoding novel  |                    |
| c  | 28  | 79   | 3660   | 23  | DNA encoding novel  |                    |
| 29 | 79  | 4.2  | 3660   | 23  | DNA encoding novel  |                    |
| c  | 30  | 72   | 915    | 23  | DNA encoding novel  |                    |
| 31 | 45  | 2.4  | 45     | 20  | Human PRO347 probe  |                    |
| 32 | 45  | 2.4  | 45     | 21  | Human PRO347 probe  |                    |
| 33 | 45  | 2.4  | 45     | 21  | Probe used to score |                    |
| c  | 34  | 30   | 30     | 24  | PCR primer #1 used  |                    |
| 35 | 27  | 1.4  | 27     | 20  | PCR primer #1 used  |                    |
| c  | 36  | 27   | 27     | 21  | PCR primer used to  |                    |
| 37 | 27  | 1.4  | 27     | 21  | PCR primer used to  |                    |
| c  | 38  | 24   | 24     | 20  | Probe for analysis  |                    |
| 39 | 24  | 1.3  | 24     | 20  | Human PRO347 PCR p  |                    |
| 40 | 24  | 1.3  | 24     | 21  | Human PRO347 PCR p  |                    |
| c  | 41  | 24   | 24     | 21  | PCR primer used to  |                    |
| 42 | 24  | 1.3  | 24     | 21  | PCR primer used to  |                    |
| c  | 43  | 24   | 24     | 21  | Primer for isolati  |                    |
| 44 | 21  | 1.1  | 7216   | 17  | Cytochrome P450 is  |                    |
| c  | 45  | 21   | 8778   | 24  | Human CDNA differe  |                    |
| 46 | 21  | 1.1  | 2780   | 24  | Selectin L Lymphoc  |                    |
| c  | 47  | 21   | 138169 | 21  | Human adenosine re  |                    |
| 48 | 21  | 1.1  | 141589 | 21  | Human adenosine re  |                    |
| c  | 49  | 21   | 141589 | 21  | Human adenosine re  |                    |
| 50 | 21  | 1.1  | 141589 | 21  | Human adenosine re  |                    |
| c  | 51  | 21   | 141589 | 21  | Human ELAM-1 polyn  |                    |
| 52 | 21  | 1.1  | 146981 | 21  | Human ELAM-1 polyn  |                    |
| c  | 53  | 21   | 146981 | 21  | Human factor-relat  |                    |
| 54 | 21  | 1.1  | 209273 | 21  | PCR primer #2 used  |                    |
| c  | 55  | 20   | 20     | 24  | PCR primer #2 used  |                    |
| 56 | 20  | 1.1  | 404    | 22  | Human polynucleoti  |                    |
| c  | 57  | 20   | 619    | 22  | Human immune/haema  |                    |
| 58 | 20  | 1.1  | 619    | 22  | Bovine mammary tis  |                    |
| 59 | 20  | 1.1  | 669    | 22  | SPAI gene. Sus sc   |                    |
| 60 | 20  | 1.1  | 737    | 15  | Drosophila melanog  |                    |
| 61 | 20  | 1.1  | 2798   | 23  | DNA encoding human  |                    |
| 62 | 20  | 1.1  | 8448   | 22  | Human reproductive  |                    |
| 63 | 20  | 1.1  | 8448   | 22  | DNA encoding human  |                    |
| 64 | 20  | 1.1  | 9566   | 22  | Human reproductive  |                    |
| 65 | 20  | 1.1  | 9566   | 22  | DNA encoding human  |                    |
| 66 | 20  | 1.1  | 14221  | 22  | Human reproductive  |                    |
| 67 | 20  | 1.1  | 14221  | 22  | DNA encoding human  |                    |
| 68 | 20  | 1.1  | 24740  | 21  | Human LMP-1 (HLMF-  |                    |
| c  | 69  | 19   | 19     | 20  | PRO347 reverse PCR  |                    |
| c  | 70  | 19   | 19     | 20  | Probe used to isol  |                    |
| c  | 71  | 19   | 19     | 21  | Primer for analysi  |                    |
| 72 | 19  | 1.0  | 171    | 23  | Human prostate exp  |                    |
| 73 | 19  | 1.0  | 219    | 22  | Mouse dextran soci  |                    |
| 74 | 19  | 1.0  | 291    | 23  | Human prostate exp  |                    |
| 75 | 19  | 1.0  | 401    | 22  | Human nervous syst  |                    |
| c  | 76  | 19   | 500    | 24  | Genomic amplicon o  |                    |
| 77 | 19  | 1.0  | 538    | 23  | Human prostate exp  |                    |
| c  | 78  | 19   | 647    | 22  | CDNA encoding nove  |                    |
| 79 | 19  | 1.0  | 647    | 22  | Human CDNA encodin  |                    |
| c  | 80  | 19   | 993    | 21  | Human G protein-co  |                    |
| c  | 81  | 19   | 993    | 21  | DNA encoding human  |                    |
| 82 | 19  | 1.0  | 1002   | 21  | Human secreted pro  |                    |

|       |    |     |        |    |           |                      |       |    |     |      |    |          |                     |
|-------|----|-----|--------|----|-----------|----------------------|-------|----|-----|------|----|----------|---------------------|
| 83    | 19 | 1.0 | 1021   | 21 | AZ46516   | Murine TREX2m poly   | 156   | 18 | 1.0 | 494  | 22 | AAF92072 | Human PRO831 cDNA.  |
| 84    | 19 | 1.0 | 1051   | 22 | ABA16863  | Human nervous syst   | 157   | 18 | 1.0 | 494  | 22 | AAF54216 | DNA encoding prote  |
| 85    | 19 | 1.0 | 1051   | 22 | ABK12782  | Human immune/haema   | c 158 | 18 | 1.0 | 517  | 22 | AAK61862 | Human immune/haema  |
| 86    | 19 | 1.0 | 1060   | 21 | AC77722   | Human cancer assoc   | c 159 | 18 | 1.0 | 540  | 22 | ABA63776 | Human foetal liver  |
| 87    | 19 | 1.0 | 1129   | 22 | AS211354  | Human cDNA sequenc   | c 160 | 18 | 1.0 | 540  | 22 | ABA30968 | Probe #9434 for ge  |
| c 88  | 19 | 1.0 | 1329   | 19 | AAV34300  | Human secreted pro   | c 161 | 18 | 1.0 | 540  | 22 | AAK12291 | Human brain expres  |
| c 89  | 19 | 1.0 | 1616   | 20 | AAK33961  | Human GCR9 coding se | c 162 | 18 | 1.0 | 540  | 22 | AAK38012 | Human bone marrow   |
| c 90  | 19 | 1.0 | 1619   | 20 | AZ20647   | CBMACD04 coding se   | c 163 | 18 | 1.0 | 540  | 22 | AAI18782 | Probe #8715 for ge  |
| c 91  | 19 | 1.0 | 1667   | 22 | AS14091   | Human FCTR5a DNA s   | c 164 | 18 | 1.0 | 540  | 22 | AAI43895 | Probe #12581 used   |
| c 92  | 19 | 1.0 | 1691   | 22 | AS14092   | Human FCTR5b DNA s   | c 165 | 18 | 1.0 | 540  | 24 | ABS12015 | Human genome-deriv  |
| c 93  | 19 | 1.0 | 1725   | 24 | ABK83879  | Human cDNA differe   | c 166 | 18 | 1.0 | 547  | 20 | AAV86937 | EST clone BK41. H   |
| c 94  | 19 | 1.0 | 1835   | 21 | AFI18013  | Lung cancer associ   | c 167 | 18 | 1.0 | 555  | 22 | ABA07617 | Human ovarian and   |
| c 95  | 19 | 1.0 | 2260   | 19 | AAV41995  | Human HTADX50 (G-p   | c 168 | 18 | 1.0 | 555  | 22 | AAI02245 | Human reproductive  |
| c 96  | 19 | 1.0 | 2424   | 23 | AS77710   | DNA encoding novel   | c 169 | 18 | 1.0 | 559  | 22 | ABA31338 | Probe #9804 for ge  |
| c 97  | 19 | 1.0 | 2486   | 22 | AAV79944  | Nucleotide sequenc   | c 170 | 18 | 1.0 | 559  | 22 | AAK38383 | Human bone marrow   |
| c 98  | 19 | 1.0 | 2924   | 23 | ABV22970  | Human prostate exp   | c 171 | 18 | 1.0 | 562  | 16 | AAQ97689 | Human A10-4 thymok  |
| c 99  | 19 | 1.0 | 2924   | 23 | ABV25468  | Human prostate exp   | c 172 | 18 | 1.0 | 593  | 22 | AAK27157 | DNA encoding novel  |
| c 100 | 19 | 1.0 | 2924   | 23 | ABV28804  | Human prostate exp   | c 173 | 18 | 1.0 | 593  | 23 | ABK43978 | DNA encoding novel  |
| c 101 | 19 | 1.0 | 3094   | 21 | AAAS3124  | Human secreted pro   | c 174 | 18 | 1.0 | 629  | 19 | AAV59567 | Human secreted pro  |
| c 102 | 19 | 1.0 | 3230   | 22 | AAAS30094 | Human lung antigen   | c 175 | 18 | 1.0 | 640  | 23 | ABK43702 | DNA encoding novel  |
| c 103 | 19 | 1.0 | 3475   | 13 | AAQ21453  | Sequence encoding    | c 176 | 18 | 1.0 | 641  | 22 | AAV83624 | B. melitensis viru  |
| c 104 | 19 | 1.0 | 4169   | 22 | AAH77992  | Nucleotide sequenc   | c 177 | 18 | 1.0 | 654  | 19 | AAV69616 | Human secreted pro  |
| c 105 | 19 | 1.0 | 7185   | 22 | AAH21860  | Mouse N-calcium ch   | c 178 | 18 | 1.0 | 669  | 21 | AAZ80258 | Human colon cancer  |
| c 106 | 19 | 1.0 | 21989  | 22 | ABA15942  | Human nervous syst   | c 179 | 18 | 1.0 | 681  | 21 | AAZ86699 | C. pneumoniae CPN1  |
| c 107 | 19 | 1.0 | 35100  | 20 | AAV73804  | KSHV LUR DNA (nucl   | c 180 | 18 | 1.0 | 718  | 15 | AAQ57027 | Synthetic F. solan  |
| c 108 | 19 | 1.0 | 137507 | 19 | AAV19941  | KSHV long unique c   | c 181 | 18 | 1.0 | 718  | 15 | AAQ68583 | Synthetic gene enc  |
| c 109 | 19 | 1.0 | 155074 | 24 | ABN85735  | Human genomic regi   | c 182 | 18 | 1.0 | 718  | 15 | AAQ68591 | Synthetic gene enc  |
| c 110 | 19 | 1.0 | 155074 | 24 | ABN85735  | Human genomic regi   | c 183 | 18 | 1.0 | 730  | 24 | AAI37809 | Cornc KCP-like prot |
| c 111 | 18 | 1.0 | 18     | 20 | AAH87289  | PRO347 forward PCR   | c 184 | 18 | 1.0 | 739  | 22 | AAH05420 | Human cDNA clone (  |
| c 112 | 18 | 1.0 | 18     | 21 | AAH46957  | PCR primer used to   | c 185 | 18 | 1.0 | 745  | 22 | AAI96827 | Human neuroblastom  |
| c 113 | 18 | 1.0 | 18     | 21 | AAH49532  | Primer for analysi   | c 186 | 18 | 1.0 | 752  | 22 | AAH05752 | Human cDNA clone (  |
| c 114 | 18 | 1.0 | 25     | 21 | AAAC95939 | HLA HLA-B gene PCR   | c 187 | 18 | 1.0 | 759  | 22 | AAH0561  | Receptor #49 parti  |
| c 115 | 18 | 1.0 | 25     | 21 | AAAC96672 | HLA HLA-A gene PCR   | c 188 | 18 | 1.0 | 768  | 19 | AAV37734 | T cell mixed lymph  |
| c 116 | 18 | 1.0 | 229    | 22 | ABV76048  | Human foetal liver   | c 189 | 18 | 1.0 | 785  | 20 | AAI21622 | Human gene expres   |
| c 117 | 18 | 1.0 | 229    | 22 | ABV40608  | Probe #19074 for g   | c 190 | 18 | 1.0 | 785  | 24 | AAI33237 | Human secreted pro  |
| c 118 | 18 | 1.0 | 229    | 22 | ABV40850  | Probe #19316 for g   | c 191 | 18 | 1.0 | 792  | 22 | AAK31954 | Human cDNA 5'-end   |
| c 119 | 18 | 1.0 | 229    | 22 | AAK24724  | Human brain expres   | c 192 | 18 | 1.0 | 792  | 22 | AAK31622 | Human cDNA clone r  |
| c 120 | 18 | 1.0 | 229    | 22 | AAK50724  | Human bone marrow    | c 193 | 18 | 1.0 | 804  | 22 | AAI96176 | Human neuroblastom  |
| c 121 | 18 | 1.0 | 229    | 22 | AAK50963  | Human bone marrow    | c 194 | 18 | 1.0 | 850  | 21 | AAZ28698 | C. pneumoniae CPN1  |
| c 122 | 18 | 1.0 | 229    | 22 | AAI27738  | Probe #17671 for g   | c 195 | 18 | 1.0 | 936  | 21 | AAZ77689 | Human cancer assoc  |
| c 123 | 18 | 1.0 | 229    | 22 | AAI56705  | Probe #25391 used    | c 196 | 18 | 1.0 | 936  | 21 | AAZ65111 | Membrane-bound pro  |
| c 124 | 18 | 1.0 | 229    | 24 | ABV24196  | Human genome-deriv   | c 197 | 18 | 1.0 | 963  | 21 | AAZ65111 | Human cDNA sequenc  |
| c 125 | 18 | 1.0 | 234    | 24 | ABL68642  | Kidney cancer rela   | c 198 | 18 | 1.0 | 963  | 22 | AAZ21504 | Human cDNA sequenc  |
| c 126 | 18 | 1.0 | 235    | 15 | AAQ76534  | Human genome fragm   | c 199 | 18 | 1.0 | 963  | 22 | AAZ44257 | Human PRO1384 (UNQ  |
| c 127 | 18 | 1.0 | 242    | 21 | AAQ70620  | Single nucleotide    | c 200 | 18 | 1.0 | 979  | 20 | AAZ79052 | Human secreted pro  |
| c 128 | 18 | 1.0 | 242    | 21 | AAQ70620  | Single nucleotide    | c 201 | 18 | 1.0 | 1001 | 21 | AAH51416 | Human UGT1A7 relat  |
| c 129 | 18 | 1.0 | 261    | 21 | AAQ00652  | SPAN-X gene relate   | c 202 | 18 | 1.0 | 1001 | 21 | AAH51417 | Human UGT1A7 relat  |
| c 130 | 18 | 1.0 | 261    | 21 | AAQ00653  | SPAN-X gene relate   | c 203 | 18 | 1.0 | 1027 | 22 | AAH51066 | DNA encoding nove   |
| c 131 | 18 | 1.0 | 275    | 15 | AAQ57026  | PUR7209, cassette    | c 204 | 18 | 1.0 | 1030 | 22 | AAZ26560 | Human cDNA encodin  |
| c 132 | 18 | 1.0 | 280    | 15 | AAQ68582  | Cassette 3 of synt   | c 205 | 18 | 1.0 | 1040 | 22 | AAZ26140 | Human cDNA encodin  |
| c 133 | 18 | 1.0 | 280    | 15 | AAQ68590  | Cassette 3 of synt   | c 206 | 18 | 1.0 | 1062 | 23 | AAZ59697 | Propionibacterium   |
| c 134 | 18 | 1.0 | 290    | 24 | ABN87658  | Human prostate spe   | c 207 | 18 | 1.0 | 1106 | 21 | AAZ34556 | Human secreted pro  |
| c 135 | 18 | 1.0 | 345    | 22 | AAI98677  | Human excretory re   | c 208 | 18 | 1.0 | 1125 | 24 | ABL90022 | Human polynucleoti  |
| c 136 | 18 | 1.0 | 345    | 22 | AAI63073  | Human kidney relat   | c 209 | 18 | 1.0 | 1182 | 22 | AAZ63810 | Human secreted pro  |
| c 137 | 18 | 1.0 | 372    | 21 | AAV69542  | Pinus radiata myrc   | c 210 | 18 | 1.0 | 1200 | 22 | AAK66438 | Human immune/haema  |
| c 138 | 18 | 1.0 | 391    | 21 | AAZ79856  | Human secreted pro   | c 211 | 18 | 1.0 | 1200 | 22 | AAK66439 | Human immune/haema  |
| c 139 | 18 | 1.0 | 400    | 22 | AAI92400  | Human polynucleoti   | c 212 | 18 | 1.0 | 1210 | 21 | AAZ37485 | Arabidopsis thalia  |
| c 140 | 18 | 1.0 | 408    | 22 | AAI11158  | DNA encoding cance   | c 213 | 18 | 1.0 | 1221 | 12 | AAQ12560 | Substance P recept  |
| c 141 | 18 | 1.0 | 431    | 22 | ABV45521  | Human breast cell    | c 214 | 18 | 1.0 | 1224 | 23 | ABI98002 | Non-endogenous hum  |
| c 142 | 18 | 1.0 | 431    | 22 | ABV56017  | Human foetal liver   | c 215 | 18 | 1.0 | 1224 | 24 | ABK12170 | Human cDNA for the  |
| c 143 | 18 | 1.0 | 431    | 22 | ABV56779  | Probe #4145 for ge   | c 216 | 18 | 1.0 | 1230 | 13 | AAQ29179 | Human recombinant   |
| c 144 | 18 | 1.0 | 431    | 22 | AAK04222  | Human brain expres   | c 217 | 18 | 1.0 | 1230 | 21 | AAZ21027 | Human low adenosin  |
| c 145 | 18 | 1.0 | 431    | 22 | AAK29709  | Human bone marrow    | c 218 | 18 | 1.0 | 1230 | 21 | AAA34905 | Human adenosine re  |
| c 146 | 18 | 1.0 | 431    | 22 | AAI14290  | Probe #4223 for ge   | c 219 | 18 | 1.0 | 1230 | 24 | ABK63836 | DNA encoding neur   |
| c 147 | 18 | 1.0 | 431    | 22 | AAI35667  | Probe #4353 used t   | c 220 | 18 | 1.0 | 1244 | 21 | AAZ35944 | Arabidopsis thalia  |
| c 148 | 18 | 1.0 | 431    | 22 | AAI04125  | Probe #4116 used t   | c 221 | 18 | 1.0 | 1251 | 20 | AAZ86148 | CDA clone HFKBC47   |
| c 149 | 18 | 1.0 | 431    | 24 | ABV04264  | Human genome-deriv   | c 222 | 18 | 1.0 | 1261 | 22 | AAI10138 | Mouse alpha-1 coll  |
| c 150 | 18 | 1.0 | 441    | 24 | ABK53613  | Human eosinophil-m   | c 223 | 18 | 1.0 | 1261 | 22 | ABL35074 | Murine cDNA isolat  |
| c 151 | 18 | 1.0 | 456    | 23 | ABV45778  | Human prostate exp   | c 224 | 18 | 1.0 | 1332 | 21 | AAZ65049 | Membrane-bound pro  |
| c 152 | 18 | 1.0 | 460    | 20 | AAV87027  | EST clone BG160.     | c 225 | 18 | 1.0 | 1332 | 22 | AAZ21465 | Human cDNA sequenc  |
| c 153 | 18 | 1.0 | 472    | 21 | AAV56631  | EST clone BG160.     | c 226 | 18 | 1.0 | 1332 | 22 | AAZ44195 | Human PRO1184 (UNQ  |
| c 154 | 18 | 1.0 | 474    | 24 | ABV86924  | Eucalyptus grandis   | c 227 | 18 | 1.0 | 1332 | 24 | ABL88147 | Human angiogenesis  |
| c 155 | 18 | 1.0 | 493    | 21 | AAZ37028  | Human PRO831 (UNQ4   | c 228 | 18 | 1.0 | 1332 | 24 | ABL88147 | Human PRO1184 cDNA  |

|     |    |     |      |    |          |                    |       |    |     |      |    |          |                    |
|-----|----|-----|------|----|----------|--------------------|-------|----|-----|------|----|----------|--------------------|
| 229 | 18 | 1.0 | 1333 | 21 | AAc58386 | Human PRO1184 nucl | 302   | 18 | 1.0 | 2502 | 22 | AAI61014 | Human polynucleoti |
| 230 | 18 | 1.0 | 1333 | 21 | AAc58607 | Human PRO1184 prot | 303   | 18 | 1.0 | 2517 | 21 | AAc90463 | Human uncoupling p |
| 231 | 18 | 1.0 | 1400 | 22 | AAf28627 | Murine TANGO 300 D | 304   | 18 | 1.0 | 2541 | 20 | AAx51704 | DNA encoding a hum |
| 232 | 18 | 1.0 | 1488 | 21 | AAA26420 | Human secreted pro | 305   | 18 | 1.0 | 2568 | 18 | AAf88419 | Human gliat cell l |
| 233 | 18 | 1.0 | 1528 | 20 | AAx35555 | Secreted protein c | 306   | 18 | 1.0 | 2568 | 20 | AAV99310 | Glial cell-line de |
| 234 | 18 | 1.0 | 1534 | 20 | AAz41342 | Human normal uteru | 307   | 18 | 1.0 | 2569 | 22 | AAf27789 | Murine TANGO 272 c |
| 235 | 18 | 1.0 | 1553 | 20 | AAz26851 | Consensus sequence | c 308 | 18 | 1.0 | 2620 | 24 | ABa92669 | Human NOV8c encodi |
| 236 | 18 | 1.0 | 1594 | 22 | AAI58910 | Human polynucleoti | c 309 | 18 | 1.0 | 2632 | 24 | ABK55561 | Human cDNA encodin |
| 237 | 18 | 1.0 | 1558 | 23 | ABV23229 | Human prostate exp | c 310 | 18 | 1.0 | 2663 | 24 | ABK55562 | Human cDNA encodin |
| 238 | 18 | 1.0 | 1558 | 23 | ABV29072 | Human prostate exp | c 311 | 18 | 1.0 | 2694 | 22 | AAf94452 | Human hydrophobic  |
| 239 | 18 | 1.0 | 1568 | 20 | AAz40810 | Secreted protein E | c 312 | 18 | 1.0 | 2722 | 21 | AAf94452 | Human secreted pro |
| 240 | 18 | 1.0 | 1568 | 21 | AAc00016 | Human secreted pro | c 313 | 18 | 1.0 | 2732 | 22 | AAf94452 | Human cDNA (DNA148 |
| 241 | 18 | 1.0 | 1568 | 21 | AAz42255 | Human human homolo | c 314 | 18 | 1.0 | 2732 | 24 | ABK47278 | cDNA encoding huma |
| 242 | 18 | 1.0 | 1588 | 20 | AAx51752 | DNA encoding a hum | c 315 | 18 | 1.0 | 2732 | 22 | ABK33575 | cDNA encoding huma |
| 243 | 18 | 1.0 | 1613 | 24 | AAx45968 | Human retinoic aci | c 316 | 18 | 1.0 | 2777 | 22 | AAf88632 | Human cDNA (DNA148 |
| 244 | 18 | 1.0 | 1626 | 23 | ABL23609 | Drosophila melanog | c 317 | 18 | 1.0 | 2777 | 24 | ABK47280 | cDNA encoding huma |
| 245 | 18 | 1.0 | 1674 | 21 | AAf21065 | Human low adenosin | c 318 | 18 | 1.0 | 2876 | 21 | AAc90467 | Human uncoupling p |
| 246 | 18 | 1.0 | 1674 | 21 | AAx34943 | Human adenosine re | c 319 | 18 | 1.0 | 2930 | 22 | AAf72750 | Human prostate can |
| 247 | 18 | 1.0 | 1678 | 22 | AAH23086 | Osteoarthritis tis | 320   | 18 | 1.0 | 3021 | 21 | AAc80579 | Human secreted pro |
| 248 | 18 | 1.0 | 1682 | 19 | AAV00247 | Human immune/haema | 321   | 18 | 1.0 | 3209 | 20 | AAV99312 | Glial cell-line de |
| 249 | 18 | 1.0 | 1709 | 22 | AAH60647 | Human secreted pro | c 322 | 18 | 1.0 | 3237 | 22 | AAI59228 | Human polynucleoti |
| 250 | 18 | 1.0 | 1724 | 22 | AAH64906 | cDNA encoding huma | c 323 | 18 | 1.0 | 3303 | 21 | AAc81710 | Human secreted pro |
| 251 | 18 | 1.0 | 1727 | 21 | AAz23451 | Substance P recept | c 324 | 18 | 1.0 | 3333 | 21 | AAz65058 | Membrane-bound pro |
| 252 | 18 | 1.0 | 1766 | 14 | AAO37210 | Human low adenosin | 325   | 18 | 1.0 | 3334 | 22 | AAf92086 | Human PRO1106 cDNA |
| 253 | 18 | 1.0 | 1766 | 21 | AAf21066 | Human adenosine re | 326   | 18 | 1.0 | 3334 | 22 | AAf44204 | Human PRO1106 (UNQ |
| 254 | 18 | 1.0 | 1766 | 21 | AAx34944 | Human polynucleoti | 327   | 18 | 1.0 | 3579 | 21 | AAZ56886 | Human MAGI polypep |
| 255 | 18 | 1.0 | 1793 | 22 | AAI58855 | Rice HMG-CoA lyase | 328   | 18 | 1.0 | 3579 | 22 | AAf90324 | Human NOG-A cDNA   |
| 256 | 18 | 1.0 | 1797 | 24 | ABD31756 | Human ovarian anti | c 329 | 18 | 1.0 | 3597 | 22 | AAK94326 | Human full-length  |
| 257 | 18 | 1.0 | 1811 | 24 | ABO54401 | DNA of haloperoxid | c 330 | 18 | 1.0 | 3611 | 22 | AAK03990 | Human protein tyro |
| 258 | 18 | 1.0 | 1815 | 24 | AAH77240 | Dreschlera hartleb | 331   | 18 | 1.0 | 3775 | 23 | AAf81656 | DNA encoding novel |
| 259 | 18 | 1.0 | 1815 | 24 | ABR03638 | Human cDNA sequenc | 332   | 18 | 1.0 | 3786 | 21 | AAz46153 | cDNA sequence enco |
| 260 | 18 | 1.0 | 1826 | 22 | AAH16610 | Human cDNA encodin | c 333 | 18 | 1.0 | 3798 | 20 | AAz40483 | Human ZC1 DNA. Ho  |
| 261 | 18 | 1.0 | 1838 | 22 | AAf32649 | Human lung cancer- | c 334 | 18 | 1.0 | 3815 | 22 | AAK75973 | Human immune/haema |
| 262 | 18 | 1.0 | 1844 | 20 | AAz24588 | Human lung tumo    | 335   | 18 | 1.0 | 3837 | 23 | ABL22528 | Drosophila melanog |
| 263 | 18 | 1.0 | 1844 | 21 | AAc65827 | Human lung cancer- | 336   | 18 | 1.0 | 3842 | 23 | ABL22528 | Drosophila melanog |
| 264 | 18 | 1.0 | 1844 | 21 | ABL49046 | Human lung tumo    | 337   | 18 | 1.0 | 3864 | 23 | AAf81657 | DNA encoding novel |
| 265 | 18 | 1.0 | 1859 | 22 | AAf21072 | Human lung tumo    | 338   | 18 | 1.0 | 3925 | 22 | AAf81657 | DNA encoding novel |
| 266 | 18 | 1.0 | 1859 | 22 | AAf21072 | Human lung tumo    | 339   | 18 | 1.0 | 3925 | 21 | AAf21072 | Human kinase (PKIN |
| 267 | 18 | 1.0 | 1879 | 22 | AAf21072 | Human lung tumo    | c 340 | 18 | 1.0 | 3929 | 21 | AAf21072 | Human low adenosin |
| 268 | 18 | 1.0 | 1893 | 22 | AAf21072 | Human lung tumo    | 341   | 18 | 1.0 | 3929 | 21 | AAf21072 | Human low adenosin |
| 269 | 18 | 1.0 | 1893 | 22 | AAf21072 | Human lung tumo    | c 342 | 18 | 1.0 | 3933 | 23 | AAf21072 | Human low adenosin |
| 270 | 18 | 1.0 | 1911 | 22 | AAf21072 | Human lung tumo    | 343   | 18 | 1.0 | 3933 | 23 | AAf21072 | Human low adenosin |
| 271 | 18 | 1.0 | 1911 | 22 | AAf21072 | Human lung tumo    | 344   | 18 | 1.0 | 3953 | 22 | AAf21072 | Human low adenosin |
| 272 | 18 | 1.0 | 1929 | 20 | AAf21072 | Human lung tumo    | c 345 | 18 | 1.0 | 4053 | 22 | AAf21072 | Human low adenosin |
| 273 | 18 | 1.0 | 1929 | 20 | AAf21072 | Human lung tumo    | 346   | 18 | 1.0 | 4053 | 22 | AAf21072 | Human low adenosin |
| 274 | 18 | 1.0 | 1947 | 22 | AAf21072 | Human lung tumo    | 347   | 18 | 1.0 | 4093 | 21 | AAf21072 | Human low adenosin |
| 275 | 18 | 1.0 | 1947 | 22 | AAf21072 | Human lung tumo    | 348   | 18 | 1.0 | 4166 | 24 | ABK70284 | Human lung cancer  |
| 276 | 18 | 1.0 | 1947 | 22 | AAf21072 | Human lung tumo    | 349   | 18 | 1.0 | 4166 | 24 | ABK70284 | Human lung cancer  |
| 277 | 18 | 1.0 | 1947 | 22 | AAf21072 | Human lung tumo    | c 350 | 18 | 1.0 | 4182 | 21 | AAf21030 | Human ovarian tumo |
| 278 | 18 | 1.0 | 1947 | 22 | AAf21072 | Human lung tumo    | 351   | 18 | 1.0 | 4182 | 21 | AAf21030 | Human ovarian tumo |
| 279 | 18 | 1.0 | 1947 | 22 | AAf21072 | Human lung tumo    | 352   | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 280 | 18 | 1.0 | 1947 | 22 | AAf21072 | Human lung tumo    | c 353 | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 281 | 18 | 1.0 | 1947 | 22 | AAf21072 | Human lung tumo    | 354   | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 282 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | c 355 | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 283 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | 356   | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 284 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | c 357 | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 285 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | 358   | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 286 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | c 359 | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 287 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | 360   | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 288 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | c 361 | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 289 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | 362   | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 290 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | c 363 | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 291 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | 364   | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 292 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | c 365 | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 293 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | 366   | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 294 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | c 367 | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 295 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | 368   | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 296 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | c 369 | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 297 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | 370   | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 298 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | c 371 | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 299 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | 372   | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 300 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | c 373 | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |
| 301 | 18 | 1.0 | 1962 | 24 | ABK70284 | Human lung cancer  | 374   | 18 | 1.0 | 4266 | 23 | AAf21030 | Human ovarian tumo |

|       |    |     |        |    |          |                    |       |    |     |     |    |          |                    |
|-------|----|-----|--------|----|----------|--------------------|-------|----|-----|-----|----|----------|--------------------|
| c 375 | 18 | 1.0 | 16173  | 22 | AAU07101 | Human reproductive | 448   | 17 | 0.9 | 339 | 23 | ABV00329 | Human prostate exp |
| c 376 | 18 | 1.0 | 17070  | 22 | AAK80632 | Human immune/haema | c 449 | 17 | 0.9 | 343 | 21 | AAV56137 | Eucalyptus grandis |
| c 377 | 18 | 1.0 | 17156  | 23 | ABU07408 | Drosophila melanog | 450   | 17 | 0.9 | 344 | 20 | AAV87204 | EST clone BN48. H  |
| c 378 | 18 | 1.0 | 17341  | 21 | AAU14872 | Genomic DNA sequen | c 451 | 17 | 0.9 | 347 | 24 | ABN93866 | Gene #364 used to  |
| c 379 | 18 | 1.0 | 17341  | 24 | AAU43176 | Arabidopsis thalia | 452   | 17 | 0.9 | 356 | 22 | AAI83287 | Human polynucleoti |
| c 380 | 18 | 1.0 | 20377  | 22 | ABA07231 | Human pancreatic c | 453   | 17 | 0.9 | 366 | 24 | ABN18614 | Human ORFX polynuc |
| c 381 | 18 | 1.0 | 20377  | 22 | AAK89872 | Human digestive sy | 454   | 17 | 0.9 | 379 | 22 | AAI83634 | Human polynucleoti |
| c 382 | 18 | 1.0 | 23587  | 22 | AAU07100 | Human reproductive | 455   | 17 | 0.9 | 380 | 24 | AAK62272 | Rat sequence diffe |
| c 383 | 18 | 1.0 | 52616  | 22 | AAK70459 | Human immune/haema | 456   | 17 | 0.9 | 380 | 24 | ABL63351 | Breast cancer rela |
| c 384 | 18 | 1.0 | 52616  | 22 | AAK78930 | Human immune/haema | 457   | 17 | 0.9 | 380 | 24 | ABL69719 | Prostate cancer re |
| c 385 | 18 | 1.0 | 84495  | 24 | AAK20588 | Human methionine a | 458   | 17 | 0.9 | 384 | 22 | AAK59178 | Human cancer relat |
| c 386 | 18 | 1.0 | 97835  | 24 | ABR84796 | Human cDNA differe | c 459 | 17 | 0.9 | 387 | 22 | AAK68035 | Corynebacterium gl |
| c 387 | 18 | 1.0 | 98690  | 24 | ABK12169 | Human DNA represen | 460   | 17 | 0.9 | 387 | 24 | ABL91351 | Chlamydia pneumoni |
| c 388 | 18 | 1.0 | 99014  | 24 | ABN96931 | Gene #3429 used to | 461   | 17 | 0.9 | 389 | 23 | ABV30674 | Human prostate exp |
| c 389 | 18 | 1.0 | 100848 | 22 | AAK28552 | Genomic fragment # | c 462 | 17 | 0.9 | 391 | 23 | ABV13606 | Human prostate exp |
| c 390 | 18 | 1.0 | 110096 | 24 | ABN95044 | Gene #1542 used to | c 463 | 17 | 0.9 | 397 | 22 | AAK66281 | Novel human polynu |
| c 391 | 18 | 1.0 | 147419 | 24 | ABR83574 | Human cDNA differe | 464   | 17 | 0.9 | 402 | 22 | AAI83007 | Human polynucleoti |
| c 392 | 18 | 1.0 | 147419 | 24 | ABR83574 | Human cDNA differe | 465   | 17 | 0.9 | 403 | 22 | AAK00654 | SPAN-X gene relate |
| c 393 | 18 | 1.0 | 148834 | 24 | ABR83570 | Human cDNA differe | c 466 | 17 | 0.9 | 404 | 22 | AAK96670 | Human neurogulin g |
| c 394 | 18 | 1.0 | 236303 | 22 | AAK11614 | Human genomic DNA  | c 467 | 17 | 0.9 | 404 | 22 | AAK98163 | Human neurogulin g |
| c 395 | 17 | 0.9 | 17     | 23 | ABK01170 | Human NOD2 Zinzyne | c 468 | 17 | 0.9 | 411 | 24 | ABK64778 | Human benign prost |
| c 396 | 17 | 0.9 | 17     | 23 | ABK01170 | Human NOD2 Zinzyne | c 469 | 17 | 0.9 | 411 | 24 | ABL69259 | Prostate cancer re |
| c 397 | 17 | 0.9 | 17     | 24 | AAK33534 | PCR primer #1 used | 470   | 17 | 0.9 | 413 | 20 | AAK30334 | DNA encoding a hum |
| c 398 | 17 | 0.9 | 17     | 16 | AAQ75754 | Reverse transcript | c 471 | 17 | 0.9 | 421 | 14 | AAK60935 | Human brain Expres |
| c 399 | 17 | 0.9 | 25     | 21 | AAK96222 | 16s rRNA gene PCR  | c 472 | 17 | 0.9 | 424 | 22 | AAK58826 | Human immune/haema |
| c 400 | 17 | 0.9 | 25     | 21 | AAK96222 | 16s rRNA gene PCR  | c 473 | 17 | 0.9 | 424 | 23 | ABV34720 | Human prostate exp |
| c 401 | 17 | 0.9 | 29     | 18 | AAK79653 | Oligonucleotide us | c 474 | 17 | 0.9 | 424 | 23 | ABV43575 | Human prostate exp |
| c 402 | 17 | 0.9 | 42     | 13 | AAK26693 | PDGF-B primer 6.   | c 475 | 17 | 0.9 | 435 | 23 | ABV38994 | Human prostate exp |
| c 403 | 17 | 0.9 | 42     | 14 | AAK49384 | Mature human PDGF- | 476   | 17 | 0.9 | 435 | 23 | ABV44781 | Human prostate exp |
| c 404 | 17 | 0.9 | 65     | 24 | ABN53279 | Mouse spliced tran | 477   | 17 | 0.9 | 450 | 23 | AAH8187  | CNS disorder-relat |
| c 405 | 17 | 0.9 | 74     | 22 | AAK98688 | Human ovarian can  | 478   | 17 | 0.9 | 451 | 24 | ABN73614 | Bovine embryonic g |
| c 406 | 17 | 0.9 | 131    | 24 | ABL85723 | Human ovarian can  | 479   | 17 | 0.9 | 456 | 22 | AAK03288 | Human reproductive |
| c 407 | 17 | 0.9 | 152    | 23 | ABV05739 | Human prostate exp | 480   | 17 | 0.9 | 456 | 22 | AAK03289 | Human reproductive |
| c 408 | 17 | 0.9 | 152    | 23 | ABV14908 | Human prostate exp | 481   | 17 | 0.9 | 457 | 17 | AAI13979 | Fat-specific gene  |
| c 409 | 17 | 0.9 | 160    | 24 | ABL83305 | Human ovarian can  | 482   | 17 | 0.9 | 457 | 19 | AAK09080 | Mouse fat-specific |
| c 410 | 17 | 0.9 | 162    | 24 | ABL83306 | Human ovarian can  | 483   | 17 | 0.9 | 457 | 20 | AAK03742 | F49 full length CD |
| c 411 | 17 | 0.9 | 169    | 22 | AAI85207 | Human polynucleoti | 484   | 17 | 0.9 | 457 | 21 | AAK99714 | Mouse body weight- |
| c 412 | 17 | 0.9 | 173    | 16 | AAQ97266 | TFE3-like cDNA clo | 485   | 17 | 0.9 | 457 | 21 | AAK52252 | Mouse fat-specific |
| c 413 | 17 | 0.9 | 181    | 22 | ABA73523 | Human foetal liver | 486   | 17 | 0.9 | 470 | 20 | AAK27436 | Human secreted pro |
| c 414 | 17 | 0.9 | 181    | 22 | ABA38804 | Probe #17270 for g | 487   | 17 | 0.9 | 471 | 24 | ABN65311 | Human cancer relat |
| c 415 | 17 | 0.9 | 181    | 22 | AAK21969 | Human brain expres | c 488 | 17 | 0.9 | 473 | 22 | ABN57686 | Human foetal liver |
| c 416 | 17 | 0.9 | 181    | 22 | AAK48132 | Human bone marrow  | c 489 | 17 | 0.9 | 473 | 22 | AAK05744 | Human brain expres |
| c 417 | 17 | 0.9 | 181    | 22 | AAI26132 | Probe #16065 for g | c 490 | 17 | 0.9 | 473 | 22 | AAK31367 | Human bone marrow  |
| c 418 | 17 | 0.9 | 181    | 22 | AAI53962 | Probe #22648 used  | c 491 | 17 | 0.9 | 473 | 22 | AAI31260 | Probe #5946 used t |
| c 419 | 17 | 0.9 | 181    | 24 | ABS22038 | Human genome-deriv | c 492 | 17 | 0.9 | 473 | 22 | ABS06119 | Human genome-deriv |
| c 420 | 17 | 0.9 | 192    | 21 | AAK97711 | Bridge-1 related p | 493   | 17 | 0.9 | 478 | 22 | ABS52304 | Human foetal liver |
| c 421 | 17 | 0.9 | 195    | 24 | ABL88404 | Pain regulated cDN | 494   | 17 | 0.9 | 478 | 22 | ABA22102 | Probe #568 for gen |
| c 422 | 17 | 0.9 | 198    | 18 | AAK50922 | Rat brain rgs8-7 g | 495   | 17 | 0.9 | 478 | 22 | AAK00578 | Human brain expres |
| c 423 | 17 | 0.9 | 203    | 23 | ABV47873 | Human prostate exp | 496   | 17 | 0.9 | 478 | 22 | AAK26028 | Human bone marrow  |
| c 424 | 17 | 0.9 | 206    | 23 | ABV57830 | Human prostate exp | 497   | 17 | 0.9 | 478 | 22 | AAI10657 | Probe #590 for gen |
| c 425 | 17 | 0.9 | 210    | 24 | ABL86092 | Human ovarian can  | 498   | 17 | 0.9 | 478 | 22 | AAI31910 | Probe #596 used to |
| c 426 | 17 | 0.9 | 222    | 24 | ABN78687 | Human ORF3634 cDNA | 499   | 17 | 0.9 | 478 | 22 | AAI00587 | Probe #578 used to |
| c 427 | 17 | 0.9 | 257    | 24 | ABN94467 | Gene #965 used to  | 500   | 17 | 0.9 | 478 | 24 | ABS00609 | Human genome-deriv |
| c 428 | 17 | 0.9 | 257    | 24 | ABL67007 | Thyroid cancer rel | 501   | 17 | 0.9 | 483 | 23 | ABV56848 | Human prostate exp |
| c 429 | 17 | 0.9 | 257    | 24 | ABL67007 | Thyroid cancer rel | 502   | 17 | 0.9 | 483 | 23 | ABV56848 | Breast cancer rela |
| c 430 | 17 | 0.9 | 257    | 24 | ABL67886 | Ovary cancer relat | 503   | 17 | 0.9 | 494 | 24 | ABL63405 | Human secreted pro |
| c 431 | 17 | 0.9 | 265    | 22 | AAK29043 | CNA encoding for   | 504   | 17 | 0.9 | 495 | 21 | AAK59482 | Human secreted pro |
| c 432 | 17 | 0.9 | 283    | 23 | ABV49472 | Human prostate exp | c 505 | 17 | 0.9 | 515 | 22 | AAK34270 | Human cDNA encodin |
| c 433 | 17 | 0.9 | 284    | 24 | AAK35795 | BS203 cDNA clone,  | 506   | 17 | 0.9 | 516 | 24 | ABN93616 | Gene #114 used to  |
| c 434 | 17 | 0.9 | 287    | 24 | ABN24438 | Human ORFX polynuc | c 507 | 17 | 0.9 | 516 | 24 | ABL63363 | Breast cancer rela |
| c 435 | 17 | 0.9 | 288    | 20 | AAK98389 | Human cancer cell  | c 508 | 17 | 0.9 | 516 | 24 | ABL63772 | Breast cancer rela |
| c 436 | 17 | 0.9 | 288    | 24 | AAI69041 | Activated T-cell d | c 509 | 17 | 0.9 | 516 | 24 | ABL64470 | Stomach cancer rel |
| c 437 | 17 | 0.9 | 296    | 24 | ABN27082 | Human ORFX polynuc | c 510 | 17 | 0.9 | 516 | 24 | ABL65524 | Lung cancer relate |
| c 438 | 17 | 0.9 | 298    | 23 | ABV09498 | Human prostate exp | c 511 | 17 | 0.9 | 517 | 24 | AAK45836 | Lung cancer relate |
| c 439 | 17 | 0.9 | 300    | 20 | AAK12854 | Human gene express | c 512 | 17 | 0.9 | 532 | 22 | ABA08819 | Human secreted pro |
| c 440 | 17 | 0.9 | 300    | 20 | AAK98454 | Human cancer cell  | 513   | 17 | 0.9 | 540 | 23 | AAK74005 | Human secreted pro |
| c 441 | 17 | 0.9 | 300    | 21 | AAK24171 | Human secreted pro | c 514 | 17 | 0.9 | 540 | 23 | AAK91199 | DNA encoding novel |
| c 442 | 17 | 0.9 | 302    | 23 | AAI19705 | Human prostate exp | c 515 | 17 | 0.9 | 540 | 23 | AAK91199 | DNA encoding novel |
| c 443 | 17 | 0.9 | 309    | 21 | AAK18368 | Lung cancer associ | 516   | 17 | 0.9 | 545 | 24 | ABK71601 | Human dithp polynu |
| c 444 | 17 | 0.9 | 318    | 23 | AAK90099 | DNA encoding novel | 517   | 17 | 0.9 | 550 | 21 | AAZ48826 | Human delta codin  |
| c 445 | 17 | 0.9 | 330    | 24 | ABK62764 | Rat sequence diffe | c 518 | 17 | 0.9 | 561 | 24 | AAK36939 | Human phospholipas |
| c 446 | 17 | 0.9 | 332    | 20 | AAK90094 | EST clone CY3. Ho  | c 519 | 17 | 0.9 | 565 | 22 | AAK62009 | Human immune/haema |
| c 447 | 17 | 0.9 | 338    | 22 | AAI10319 | Human breast cance | 520   | 17 | 0.9 | 569 | 22 | AAH04370 | Human cDNA clone ( |
|       |    |     |        |    |          |                    |       |    |     |     |    | AAI87726 | Human polynucleoti |



|     |    |     |      |    |           |                     |
|-----|----|-----|------|----|-----------|---------------------|
| 594 | 17 | 0.9 | 966  | 24 | ABT041196 | Human G-protein co  |
| 595 | 17 | 0.9 | 972  | 22 | AAH31705  | Human olfactory re  |
| 596 | 17 | 0.9 | 975  | 23 | AAAG67820 | DNA encoding novel  |
| 597 | 17 | 0.9 | 978  | 22 | AAAG23235 | Human cDNA encodi   |
| 598 | 17 | 0.9 | 978  | 24 | AAAG68498 | Human DNA for olfa  |
| 599 | 17 | 0.9 | 978  | 24 | ABK37611  | DNA encoding G-con  |
| 600 | 17 | 0.9 | 982  | 24 | ABN74298  | Bovine embryonic g  |
| 601 | 17 | 0.9 | 982  | 24 | ABN74299  | Bovine embryonic g  |
| 602 | 17 | 0.9 | 990  | 21 | AAZ971102 | Human secreted pro  |
| 603 | 17 | 0.9 | 997  | 22 | AAAF9887  | Human secreted pro  |
| 604 | 17 | 0.9 | 1002 | 22 | AAAF98198 | Human complement c  |
| 605 | 17 | 0.9 | 1017 | 18 | AAAF68956 | Blackcurrant priB6  |
| 606 | 17 | 0.9 | 1021 | 22 | AAAF91908 | Human secreted pro  |
| 607 | 17 | 0.9 | 1048 | 24 | ABL51015  | Human EDAL-II exon  |
| 608 | 17 | 0.9 | 1050 | 22 | AAAF97919 | Human secreted pro  |
| 609 | 17 | 0.9 | 1052 | 21 | AAZ93148  | Human secreted pro  |
| 610 | 17 | 0.9 | 1056 | 18 | AAAF79681 | BRCA2 cancer suscep |
| 611 | 17 | 0.9 | 1071 | 22 | AAAF97918 | Human secreted pro  |
| 612 | 17 | 0.9 | 1086 | 22 | AAAF97921 | Human secreted pro  |
| 613 | 17 | 0.9 | 1086 | 22 | AAAF91929 | Human secreted pro  |
| 614 | 17 | 0.9 | 1090 | 22 | AAH33778  | Human colon cancer  |
| 615 | 17 | 0.9 | 1097 | 21 | AAAF76652 | Human ORFX ORF2207  |
| 616 | 17 | 0.9 | 1121 | 11 | AAQ05859  | Cutinase gene of F  |
| 617 | 17 | 0.9 | 1138 | 22 | AAAF97917 | Human secreted pro  |
| 618 | 17 | 0.9 | 1149 | 22 | AAAF97920 | Human secreted pro  |
| 619 | 17 | 0.9 | 1153 | 19 | AAV59541  | Human secreted pro  |
| 620 | 17 | 0.9 | 1153 | 24 | ABL89521  | Human polynucleoti  |
| 621 | 17 | 0.9 | 1189 | 24 | ABN98281  | Arabidopsis thalia  |
| 622 | 17 | 0.9 | 1193 | 24 | ABL01575  | Human secreted pro  |
| 623 | 17 | 0.9 | 1200 | 23 | AAZ92828  | DNA encoding novel  |
| 624 | 17 | 0.9 | 1217 | 21 | AAZ60146  | Capicium annum (r   |
| 625 | 17 | 0.9 | 1217 | 22 | AAH04144  | Incompatible peppe  |
| 626 | 17 | 0.9 | 1225 | 20 | AAH59565  | Nucleotide sequenc  |
| 627 | 17 | 0.9 | 1225 | 20 | AAH59546  | Nucleotide sequenc  |
| 628 | 17 | 0.9 | 1242 | 20 | AAH59547  | Nucleotide sequenc  |
| 629 | 17 | 0.9 | 1255 | 23 | AAH88312  | DNA encoding novel  |
| 630 | 17 | 0.9 | 1262 | 21 | AAZ26404  | Human secreted pro  |
| 631 | 17 | 0.9 | 1264 | 20 | AAZ20927  | Nucleotide sequenc  |
| 632 | 17 | 0.9 | 1264 | 21 | AAH59018  | Human secreted pro  |
| 633 | 17 | 0.9 | 1279 | 21 | AAH45570  | Arabidopsis thalia  |
| 634 | 17 | 0.9 | 1281 | 21 | AAH40591  | Arabidopsis thalia  |
| 635 | 17 | 0.9 | 1297 | 24 | ABN98249  | Arabidopsis thalia  |
| 636 | 17 | 0.9 | 1322 | 20 | AAZ20165  | Bovine pregnancy a  |
| 637 | 17 | 0.9 | 1323 | 16 | AAH87844  | Cladosporium herba  |
| 638 | 17 | 0.9 | 1326 | 24 | AAH35796  | BS203 consensus CD  |
| 639 | 17 | 0.9 | 1335 | 21 | AAH98086  | Human secreted pro  |
| 640 | 17 | 0.9 | 1335 | 22 | AAH11699  | Human secreted pro  |
| 641 | 17 | 0.9 | 1335 | 24 | ABK69795  | Human secreted pro  |
| 642 | 17 | 0.9 | 1346 | 22 | AAH41524  | cDNA encoding nove  |
| 643 | 17 | 0.9 | 1350 | 20 | AAH00716  | Human secreted pro  |
| 644 | 17 | 0.9 | 1351 | 20 | AAH00685  | Human secreted pro  |
| 645 | 17 | 0.9 | 1352 | 21 | AAH75885  | Human ORFX ORF1440  |
| 646 | 17 | 0.9 | 1353 | 20 | AAH90669  | M. persicae ecdyso  |
| 647 | 17 | 0.9 | 1393 | 21 | AAH76386  | Human ORFX ORF1941  |
| 648 | 17 | 0.9 | 1399 | 22 | AAH47052  | Murine maspin cDNA  |
| 649 | 17 | 0.9 | 1405 | 23 | AAH83864  | DNA encoding novel  |
| 650 | 17 | 0.9 | 1416 | 20 | AAH84498  | Human secreted pro  |
| 651 | 17 | 0.9 | 1416 | 22 | ABH83281  | Human secreted pro  |
| 652 | 17 | 0.9 | 1431 | 20 | AAH59568  | Mutant Pitx3 gene   |
| 653 | 17 | 0.9 | 1433 | 22 | AAH07657  | Human secreted pro  |
| 654 | 17 | 0.9 | 1433 | 22 | AAH42493  | Human cDNA encodi   |
| 655 | 17 | 0.9 | 1434 | 18 | AAH90172  | Oil seed rape cyst  |
| 656 | 17 | 0.9 | 1452 | 22 | AAH67968  | Corynebacterium gl  |
| 657 | 17 | 0.9 | 1459 | 21 | AAH59818  | DNA encoding a hum  |
| 658 | 17 | 0.9 | 1465 | 22 | AAH53457  | Human foetal liver  |
| 659 | 17 | 0.9 | 1465 | 22 | AAK27180  | Human bone marrow   |
| 660 | 17 | 0.9 | 1465 | 22 | AAI11766  | Human foetal liver  |
| 661 | 17 | 0.9 | 1465 | 22 | AAI33076  | Probe #1699 for ge  |
| 662 | 17 | 0.9 | 1465 | 22 | AAI33076  | Probe #1762 used t  |
| 663 | 17 | 0.9 | 1465 | 24 | ABH01695  | Probe #1866 used t  |
| 664 | 17 | 0.9 | 1465 | 24 | ABH01730  | Human genome-deriv  |
| 665 | 17 | 0.9 | 1501 | 21 | AAH18022  | Lung cancer associ  |
| 666 | 17 | 0.9 | 1512 | 18 | AAH72172  | Alzheimer's diseas  |
| 667 | 17 | 0.9 | 1521 | 22 | ABA66047  | Human foetal liver  |

|       |    |     |      |    |           |                      |     |     |      |    |           |                     |
|-------|----|-----|------|----|-----------|----------------------|-----|-----|------|----|-----------|---------------------|
| 667   | 17 | 0.9 | 1521 | 22 | AAK40210  | Human bone marrow    | 740 | 0.9 | 2181 | 24 | ABK11714  | DNA encoding novel  |
| 668   | 17 | 0.9 | 1521 | 22 | AAI20978  | Probe #10911 for g   | 741 | 0.9 | 2193 | 24 | ABK34911  | Human cDNA encoding |
| 669   | 17 | 0.9 | 1521 | 22 | AAI46225  | Probe #14911 used t  | 742 | 0.9 | 2280 | 21 | AAAC59224 | Human secreted pro  |
| 670   | 17 | 0.9 | 1521 | 22 | AAI06691  | Probe #6682 used t   | 743 | 0.9 | 2280 | 22 | AAI98091  | Human neuroblastom  |
| 671   | 17 | 0.9 | 1521 | 24 | ABS14258  | Human genome-deriv   | 744 | 0.9 | 2288 | 21 | AAA49174  | cDNA encoding huma  |
| 672   | 17 | 0.9 | 1527 | 22 | AAK52530  | Human polynucleoti   | 745 | 0.9 | 2296 | 22 | AAI99514  | Human polynucleoti  |
| 673   | 17 | 0.9 | 1587 | 23 | AAK73550  | DNA encoding novel   | 746 | 0.9 | 2302 | 22 | AAI09948  | Human drug metabol  |
| c 674 | 17 | 0.9 | 1600 | 21 | AAK77190  | Human OREF ORF2745   | 747 | 0.9 | 2332 | 22 | AAK30684  | DNA encoding novel  |
| 675   | 17 | 0.9 | 1642 | 21 | AAZ36835  | Partial nucleotide   | 748 | 0.9 | 2332 | 22 | AAK28763  | Genomic sequence c  |
| 676   | 17 | 0.9 | 1642 | 23 | AAI67877  | Human interleukin    | 749 | 0.9 | 2346 | 21 | AAK98804  | Human pancreatic c  |
| 677   | 17 | 0.9 | 1651 | 23 | AAK86287  | DNA encoding novel   | 750 | 0.9 | 2361 | 21 | AAK25201  | Human transforming  |
| c 678 | 17 | 0.9 | 1660 | 22 | AAK27209  | cDNA encoding novel  | 751 | 0.9 | 2362 | 24 | ABK27553  | DNA encoding Chlam  |
| c 679 | 17 | 0.9 | 1660 | 23 | ABK43910  | DNA encoding novel   | 752 | 0.9 | 2370 | 21 | AAAG1509  | A. vitis hypersens  |
| 680   | 17 | 0.9 | 1663 | 21 | AAK65293  | Human secreted pro   | 753 | 0.9 | 2370 | 21 | AAAG1510  | A. vitis hypersens  |
| 681   | 17 | 0.9 | 1680 | 24 | AAQ54644  | Human ovarian anti   | 754 | 0.9 | 2403 | 21 | AAZ98123  | Human signal pepti  |
| c 682 | 17 | 0.9 | 1717 | 22 | AAH13941  | Human cDNA sequenc   | 755 | 0.9 | 2438 | 22 | AAH14659  | Human cDNA sequenc  |
| c 683 | 17 | 0.9 | 1720 | 21 | AAK39471  | Human ADA2 DNA. H    | 756 | 0.9 | 2445 | 24 | ABQ54621  | Human ovarian anti  |
| 684   | 17 | 0.9 | 1737 | 21 | AAK77792  | Human cancer assoc   | 757 | 0.9 | 2502 | 18 | AAK88991  | Streptococcus pneu  |
| 685   | 17 | 0.9 | 1740 | 22 | AAK89270  | Human digestive sy   | 758 | 0.9 | 2514 | 22 | AAH16134  | Mouse Sox-9 cDNA.   |
| 686   | 17 | 0.9 | 1747 | 22 | AAK51546  | Human polynucleoti   | 759 | 0.9 | 2514 | 22 | AAH16134  | Human cDNA sequenc  |
| 687   | 17 | 0.9 | 1752 | 13 | AAQ25808  | Mouse thyrotropin-   | 760 | 0.9 | 2551 | 19 | AAV29537  | Homo sapiens PSPI-  |
| c 688 | 17 | 0.9 | 1754 | 22 | AAK08520  | Human secreted pro   | 761 | 0.9 | 2566 | 20 | AAZ27256  | Human secreted pro  |
| 689   | 17 | 0.9 | 1756 | 19 | AAV59667  | Human secreted pro   | 762 | 0.9 | 2613 | 22 | AAH15201  | Human cDNA sequenc  |
| c 690 | 17 | 0.9 | 1758 | 23 | AAK53398  | Haemophilus influe   | 763 | 0.9 | 2663 | 18 | AAK70174  | Human delta-1 prot  |
| c 691 | 17 | 0.9 | 1785 | 22 | AAH68408  | C glutamicum codin   | 764 | 0.9 | 2663 | 20 | AAK16300  | Human delta-1 gene  |
| 692   | 17 | 0.9 | 1787 | 19 | AAV29522  | Homo sapiens PSPI    | 765 | 0.9 | 2663 | 20 | AAK16817  | Human PPAR-gamma-1  |
| 693   | 17 | 0.9 | 1793 | 21 | AAK77949  | Human cancer assoc   | 766 | 0.9 | 2688 | 20 | AAK19062  | Human PPAR-gamma-1  |
| c 694 | 17 | 0.9 | 1797 | 22 | AAK32137  | M persicae ecdyson   | 767 | 0.9 | 2702 | 16 | AAQ95323  | Eucalyptus grandis  |
| c 695 | 17 | 0.9 | 1805 | 22 | AAK44633  | Human full-length    | 768 | 0.9 | 2728 | 21 | AAQ95323  | Human TANGO 243 CD  |
| c 696 | 17 | 0.9 | 1808 | 21 | AAK42421  | Arabidopsis thalia   | 769 | 0.9 | 2811 | 21 | AAK50443  | Human GTP-binding   |
| c 697 | 17 | 0.9 | 1814 | 22 | AAK94853  | Human full-length    | 770 | 0.9 | 2832 | 22 | ABK61894  | Drosophila melanog  |
| c 698 | 17 | 0.9 | 1821 | 22 | AAK30446  | Wheat apoptosis in   | 771 | 0.9 | 2834 | 23 | ABK61894  | C. reinhardtii chl  |
| c 699 | 17 | 0.9 | 1829 | 22 | AAH17638  | Human cDNA sequenc   | 772 | 0.9 | 2888 | 21 | AAA11239  | Human secreted pro  |
| c 700 | 17 | 0.9 | 1831 | 21 | AAK61882  | cDNA encoding a hu   | 773 | 0.9 | 2921 | 21 | AAK69547  | Human secreted pro  |
| c 701 | 17 | 0.9 | 1832 | 22 | AAK94520  | Human full-length    | 774 | 0.9 | 2921 | 21 | AAK69547  | PRO172 cDNA. Homo   |
| c 702 | 17 | 0.9 | 1835 | 21 | AAK98821  | Human proliferatio   | 775 | 0.9 | 2933 | 21 | AAK54105  | Human PRO172 prote  |
| c 703 | 17 | 0.9 | 1835 | 21 | AAK98102  | Human proliferatio   | 776 | 0.9 | 2933 | 21 | AAK58587  | Human PRO172 prote  |
| c 704 | 17 | 0.9 | 1835 | 24 | AAK29932  | Human pharmaceutical | 777 | 0.9 | 2933 | 21 | AAK77512  | Human PRO172 prote  |
| 705   | 17 | 0.9 | 1846 | 21 | AAK26992  | Maize PCNA p120 ge   | 778 | 0.9 | 2933 | 22 | AAZ97303  | PRO172 DNA5916-11   |
| 706   | 17 | 0.9 | 1854 | 21 | AAK59664  | Human secreted pro   | 779 | 0.9 | 2933 | 22 | AAK21416  | Human cDNA sequenc  |
| 707   | 17 | 0.9 | 1860 | 22 | AAH81748  | Human differential   | 780 | 0.9 | 2933 | 22 | AAK97368  | Human angiogenesis  |
| 708   | 17 | 0.9 | 1860 | 22 | AAH02889  | Human shear stress   | 781 | 0.9 | 2935 | 21 | AAK27207  | cDNA encoding nove  |
| 709   | 17 | 0.9 | 1860 | 24 | ABN95120  | Gene #1618 used to   | 782 | 0.9 | 3010 | 21 | AAZ65071  | Membrane-bound pro  |
| c 710 | 17 | 0.9 | 1865 | 22 | AAK08498  | Human secreted pro   | 783 | 0.9 | 3012 | 22 | AAK58609  | Human PRO1346 nucl  |
| 711   | 17 | 0.9 | 1866 | 19 | AAV62478  | Human MAP kinase,    | 784 | 0.9 | 3026 | 21 | AAI60845  | Human PRO1346 nucl  |
| 712   | 17 | 0.9 | 1866 | 24 | ABK84604  | Human cDNA differe   | 785 | 0.9 | 3036 | 24 | ABQ90503  | M. capsulatus gene  |
| 713   | 17 | 0.9 | 1870 | 22 | AAK98408  | Human EST-derived    | 786 | 0.9 | 3059 | 21 | AAK60191  | Hydrophobic domain  |
| 714   | 17 | 0.9 | 1884 | 24 | ABK83500  | Human cDNA differe   | 787 | 0.9 | 3099 | 22 | AAK93799  | Human cDNA encoding |
| 715   | 17 | 0.9 | 1885 | 21 | AAK77018  | Human ORFX ORF2573   | 788 | 0.9 | 3111 | 19 | AAV54586  | Human secretory pr  |
| 716   | 17 | 0.9 | 1904 | 24 | ABA02343  | Human pax protein    | 789 | 0.9 | 3111 | 20 | AAZ25606  | Human secreted pro  |
| c 717 | 17 | 0.9 | 1921 | 20 | AAK19487  | Human secreted pro   | 790 | 0.9 | 3147 | 24 | ABK48437  | DNA encoding human  |
| c 718 | 17 | 0.9 | 1951 | 21 | AAK72422  | Human nucleic acid   | 791 | 0.9 | 3162 | 21 | AAZ98679  | Human delta protei  |
| 719   | 17 | 0.9 | 1956 | 21 | AAK46328  | Arabidopsis thalia   | 792 | 0.9 | 3218 | 23 | ABV25411  | Human prostate exp  |
| 720   | 17 | 0.9 | 1978 | 22 | AAK40969  | cDNA encoding nove   | 793 | 0.9 | 3218 | 23 | AAH42258  | Nucleotide sequenc  |
| 721   | 17 | 0.9 | 1980 | 18 | AAK59454  | H-Delta-1 contig c   | 794 | 0.9 | 3300 | 22 | AAH42258  | Drosophila melanog  |
| 722   | 17 | 0.9 | 1989 | 24 | ABK58249  | Human transferase    | 795 | 0.9 | 3340 | 23 | ABL19058  | Drosophila melanog  |
| 723   | 17 | 0.9 | 2004 | 24 | AAK99456  | Human 32144 cDNA s   | 796 | 0.9 | 3421 | 23 | AAK71804  | DNA encoding novel  |
| 724   | 17 | 0.9 | 2011 | 22 | AAK24683  | Nucleotide sequenc   | 797 | 0.9 | 3447 | 23 | AAK71804  | Bovine butyrophilli |
| 725   | 17 | 0.9 | 2011 | 22 | AAK24705  | Nucleotide sequenc   | 798 | 0.9 | 3452 | 19 | AAV57908  | Human cDNA differe  |
| 726   | 17 | 0.9 | 2038 | 22 | AAK159495 | Human polynucleoti   | 799 | 0.9 | 3452 | 24 | ABK84471  | Human benign prost  |
| 727   | 17 | 0.9 | 2046 | 20 | AAK93110  | Chicken 17.5.3 pro   | 800 | 0.9 | 3452 | 24 | ABK64749  | Human cDNA encoding |
| 728   | 17 | 0.9 | 2114 | 22 | AAI59059  | Human polynucleoti   | 801 | 0.9 | 3505 | 22 | AAK22758  | Human secreted pro  |
| 729   | 17 | 0.9 | 2138 | 22 | AAK21395  | R. sanguineus glut   | 802 | 0.9 | 3542 | 22 | AAK08295  | Human cDNA encoding |
| 730   | 17 | 0.9 | 2163 | 21 | AAK50081  | Arabidopsis herbic   | 803 | 0.9 | 3551 | 22 | AAK22522  | Rat wild-type IRP   |
| 731   | 17 | 0.9 | 2168 | 24 | AAK23973  | Human neurotransmi   | 804 | 0.9 | 3770 | 24 | AAK31617  | Human polynucleoti  |
| 732   | 17 | 0.9 | 2172 | 24 | ABL58248  | Human transferase    | 805 | 0.9 | 3803 | 22 | AAH14485  | Human cDNA sequenc  |
| c 733 | 17 | 0.9 | 2181 | 20 | AAK33935  | Human PRO362 nucle   | 806 | 0.9 | 3923 | 24 | ABN97440  | Gene #3938 used to  |
| c 734 | 17 | 0.9 | 2181 | 20 | AAK81769  | Nucleotide sequenc   | 807 | 0.9 | 3923 | 24 | ABL68030  | Ovary cancer relat  |
| c 735 | 17 | 0.9 | 2181 | 20 | AAK81771  | DNA40628 encoding    | 808 | 0.9 | 3934 | 17 | AAK30309  | Human SOX-9 cDNA.   |
| c 736 | 17 | 0.9 | 2181 | 21 | AAK78472  | Human PRO362 encod   | 809 | 0.9 | 4305 | 23 | ABV22380  | Human prostate exp  |
| c 737 | 17 | 0.9 | 2181 | 21 | AAK58231  | Human PRO362 nucle   | 810 | 0.9 | 4305 | 23 | ABV22380  | Human prostate exp  |
| c 738 | 17 | 0.9 | 2181 | 21 | AAK58594  | Human PRO362 prote   | 811 | 0.9 | 4324 | 23 | ABL16366  | Drosophila melanog  |
| c 739 | 17 | 0.9 | 2181 | 21 | AAK49725  | Human PRO362 cDNA    | 812 | 0.9 | 4324 | 23 | ABL16366  | Drosophila melanog  |

|     |    |     |      |    |          |                    |       |    |     |       |    |           |                    |
|-----|----|-----|------|----|----------|--------------------|-------|----|-----|-------|----|-----------|--------------------|
| 813 | 17 | 0.9 | 4361 | 23 | ABL05620 | Drosophila melanog | c 886 | 17 | 0.9 | 11523 | 22 | AA545467  | Chemically pretrea |
| 814 | 17 | 0.9 | 4446 | 23 | ABL02990 | Drosophila melanog | c 887 | 17 | 0.9 | 11523 | 22 | AA546641  | Tumour suppressor  |
| 815 | 17 | 0.9 | 4619 | 23 | AAH29917 | C albicans apoptos | c 888 | 17 | 0.9 | 11523 | 24 | ABL34001  | Human DNA for stag |
| 816 | 17 | 0.9 | 4629 | 16 | AAQ76016 | B-domain deleted F | c 889 | 17 | 0.9 | 11523 | 24 | ABL33922  | Human immune syste |
| 817 | 17 | 0.9 | 4629 | 20 | AAH88293 | Human Factor VIII  | c 890 | 17 | 0.9 | 11523 | 24 | ABK28323  | DNA transcription  |
| 818 | 17 | 0.9 | 4629 | 24 | AAH88293 | Human Factor VIII  | c 891 | 17 | 0.9 | 11617 | 22 | AAK75374  | Human immune/haema |
| 819 | 17 | 0.9 | 4670 | 19 | AAH84384 | Human B domain-del | c 892 | 17 | 0.9 | 11617 | 22 | AAI62937  | Human immune/haema |
| 820 | 17 | 0.9 | 4670 | 19 | AAH84384 | Human Factor VIII  | c 893 | 17 | 0.9 | 11617 | 22 | AAI62937  | Human immune/haema |
| 821 | 17 | 0.9 | 4832 | 19 | AAV19581 | Human factor VIII  | c 894 | 17 | 0.9 | 11632 | 22 | AAK80647  | Human immune/haema |
| 822 | 17 | 0.9 | 4832 | 19 | AAV19581 | Human factor VIII  | c 895 | 17 | 0.9 | 11632 | 22 | AAK80647  | Human immune/haema |
| 823 | 17 | 0.9 | 4839 | 22 | AAK90965 | Human digestive sy | c 896 | 17 | 0.9 | 11639 | 22 | AAK807806 | Human ovarian and  |
| 824 | 17 | 0.9 | 4839 | 22 | AAK90965 | Human digestive sy | c 897 | 17 | 0.9 | 11639 | 22 | AAK807806 | Human reproductive |
| 825 | 17 | 0.9 | 4839 | 22 | AAK90965 | Human liver associ | c 898 | 17 | 0.9 | 11639 | 22 | AAK807806 | Human immune/haema |
| 826 | 17 | 0.9 | 5077 | 24 | AAH90355 | Human liver antige | c 899 | 17 | 0.9 | 11770 | 19 | AAV52305  | Human immune/haema |
| 827 | 17 | 0.9 | 5086 | 15 | AAQ50096 | Arabidopsis herbic | c 900 | 17 | 0.9 | 11846 | 20 | AAH82261  | Streptococcus pneu |
| 828 | 17 | 0.9 | 5086 | 16 | AAQ50096 | Human oncogene bcl | c 901 | 17 | 0.9 | 12022 | 20 | AAH82260  | Factor VIII protei |
| 829 | 17 | 0.9 | 5086 | 16 | AAQ50096 | Human bcl-2 gene   | c 902 | 17 | 0.9 | 12022 | 20 | AAH82260  | Factor VIII protei |
| 830 | 17 | 0.9 | 5086 | 24 | AAH54166 | Human bcl2 proto-o | c 903 | 17 | 0.9 | 12022 | 20 | AAH82260  | Human immune/haema |
| 831 | 17 | 0.9 | 5086 | 24 | AAH54166 | Human bcl2 proto-o | c 904 | 17 | 0.9 | 12022 | 20 | AAH82260  | Human immune/haema |
| 832 | 17 | 0.9 | 5086 | 24 | AAH54166 | Human bcl2 proto-o | c 905 | 17 | 0.9 | 12022 | 20 | AAH82260  | Human immune/haema |
| 833 | 17 | 0.9 | 5105 | 9  | AAH15284 | DNA sequence. Hom  | c 906 | 17 | 0.9 | 12022 | 20 | AAH82260  | Human immune/haema |
| 834 | 17 | 0.9 | 5105 | 9  | AAH15284 | DNA sequence. Hom  | c 907 | 17 | 0.9 | 12022 | 20 | AAH82260  | Human immune/haema |
| 835 | 17 | 0.9 | 5259 | 21 | AAH64328 | Sequence of bcl-2  | c 908 | 17 | 0.9 | 12022 | 20 | AAH82260  | Human immune/haema |
| 836 | 17 | 0.9 | 5322 | 22 | ABA19018 | cDNA sequence enco | c 909 | 17 | 0.9 | 14044 | 22 | AAH54793  | Nucleotide sequenc |
| 837 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human nervous syst | c 910 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 838 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 911 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 839 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 912 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 840 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 913 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 841 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 914 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 842 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 915 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 843 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 916 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 844 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 917 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 845 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 918 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 846 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 919 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 847 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 920 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 848 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 921 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 849 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 922 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 850 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 923 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 851 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 924 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 852 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 925 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 853 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 926 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 854 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 927 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 855 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 928 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 856 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 929 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 857 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 930 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 858 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 931 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 859 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 932 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 860 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 933 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 861 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 934 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 862 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 935 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 863 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 936 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 864 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 937 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 865 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 938 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 866 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 939 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 867 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 940 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 868 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 941 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 869 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 942 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 870 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 943 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 871 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 944 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 872 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 945 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 873 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 946 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 874 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 947 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 875 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 948 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 876 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 949 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 877 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 950 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 878 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 951 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 879 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 952 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 880 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 953 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 881 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 954 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 882 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 955 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 883 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 956 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 884 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 957 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |
| 885 | 17 | 0.9 | 5322 | 22 | ABA19018 | Human reproductive | c 958 | 17 | 0.9 | 1580  | 22 | AAH54793  | Human nervous syst |

c 959 16 0.9 25 21 AAC96201 16s rRNA gene PCR  
 c 960 16 0.9 25 21 AAC96263 HLA DPB1 gene PCR  
 c 961 16 0.9 25 21 AAC96284 HLA DPB1 gene PCR  
 c 962 16 0.9 25 21 AAC96392 HLA DPB1 gene PCR  
 c 963 16 0.9 25 21 AAC96404 HLA DQAI gene PCR  
 c 964 16 0.9 25 21 AAC96425 HLA DQAI gene PCR  
 c 965 16 0.9 25 21 AAC96624 HLA DRB345 gene PC  
 c 966 16 0.9 25 21 AAC96624 HLA HLA-A gene PCR  
 c 967 16 0.9 25 21 AAC96780 HLA HLA-A gene PCR  
 c 968 16 0.9 25 21 AAC96783 HLA HLA-A gene PCR  
 c 969 16 0.9 25 21 AAC96876 HLA HLA-C gene PCR  
 c 970 16 0.9 25 21 AAA75773 PCR primer for a h  
 c 971 16 0.9 29 21 AAA71173 Molecular interact  
 c 972 16 0.9 29 21 AAA71190 Molecular interact  
 c 973 16 0.9 30 18 AAT69677 Downstream primer  
 c 974 16 0.9 30 21 AAA94323 RNA-protein fusion  
 c 975 16 0.9 30 21 AAA94323 Cassava S-hydroxyn  
 c 976 16 0.9 31 19 AAV48095 Oligonucleotide 31  
 c 977 16 0.9 33 21 AAA94322 RNA-protein fusion  
 c 978 16 0.9 34 19 AAV48094 Oligonucleotide 34  
 c 979 16 0.9 36 21 AAA94321 RNA-protein fusion  
 c 980 16 0.9 37 16 AAO85920 Hepatitis C virus  
 c 981 16 0.9 37 16 AAO75035 PCR primer for the  
 c 982 16 0.9 37 19 AAV48093 Oligonucleotide 37  
 c 983 16 0.9 39 21 AAA94320 RNA-protein fusion  
 c 984 16 0.9 40 13 AAQ25023 Anti-sense oligonu  
 c 985 16 0.9 40 19 AAV48092 Oligonucleotide 40  
 c 986 16 0.9 40 22 AAH20358 HHV6 virus p41 gen  
 c 987 16 0.9 42 21 AAA94319 RNA-protein fusion  
 c 988 16 0.9 43 19 AAV48091 Oligonucleotide 43  
 c 989 16 0.9 44 21 AAA59200 3' PCR primer used  
 c 990 16 0.9 44 21 AAA59202 3' PCR primer used  
 c 991 16 0.9 45 22 AAL32265 Human SNP oligonuc  
 c 992 16 0.9 50 22 AAL29684 Human SNP oligonuc  
 c 993 16 0.9 50 22 AAI77401 Human silent SNP c  
 c 994 16 0.9 51 22 AAL30293 Human SNP oligonuc  
 c 995 16 0.9 51 22 AAI74150 Human silent SNP c  
 c 996 16 0.9 51 22 AAI74151 Human silent SNP c  
 c 997 16 0.9 51 23 ABL00401 Human silent nonco  
 c 998 16 0.9 59 21 AAC14025 Human secreted pro  
 c 999 16 0.9 60 24 ABL37626 Human spliced tran  
 c1000 16 0.9 60 24 ABL46425 Human spliced tran

## ALIGNMENTS

RESULT 1  
 ID AAX87260 standard; cDNA; 1876 BP.  
 AC AAX87260;

DT 27-SEP-1999 (first entry)

XX cDNA clone encoding human PRO347, amplified in tumour cells.

XX PRO347; UNQ306; cancer; tumour; diagnosis; therapy; human; ss.

XX Homo sapiens.

XX Key Location/Qualifiers  
 FH 123..1490  
 FT CDS /\*tag= a  
 FT sig\_peptide 123..200  
 FT /\*tag= b  
 FT mat\_peptide 201..1487  
 FT /\*tag= c

XX WO9935170-A2.

XX 15-JUL-1999.

XX

PF 05-JAN-1999; 99WO-US00106.  
 XX 20-NOV-1998; 98US-0109304.  
 PR 05-JAN-1998; 98US-0070440.  
 PR 23-APR-1998; 98US-0083500.  
 PR 22-MAY-1998; 98US-0086414.  
 PR 10-JUN-1998; 98US-0088742.  
 PR 10-NOV-1998; 98US-0107783.  
 XX (GETH ) GENENTECH INC.  
 XX Botstein D, Goddard A, Gurney AL, Hillan KJ, Lawrence DA;  
 PI Roy MA, Wood WI;  
 XX WPI; 1999-430385/36.  
 DR P-PSDB; AAY06483.  
 XX Antibody against proteins expressed in neoplastic cells, useful for  
 PT tumor diagnosis and treatment  
 XX Example 1; Fig 13; 162pp; English.  
 PS This is the nucleotide sequence of cDNA clone DNA44176 (ATCC 209532)  
 CC coding for human PRO347 (UNQ306) (see AAY06482). The clone was  
 CC isolated from a foetal kidney library. Amplification of DNA44176  
 CC occurs in various tumours, suggesting an association with tumour  
 CC formation or growth. Antagonists (e.g. antibodies) directed against  
 CC PRO347 may have use in cancer therapy. The invention identifies 14  
 CC genes (see AAX87254-67) that are amplified in the genome of tumour  
 CC cells. Such amplification is expected to be associated with  
 CC overexpression of the gene product and to contribute to  
 CC tumorigenesis. The encoded proteins (see AAY06477-90) may be useful  
 CC targets for the diagnosis and/or treatment (including prevention)  
 CC of certain cancers, and may act as predictors of the prognosis of  
 CC tumour treatment.  
 XX SQ Sequence 1876 BP; 387 A; 568 C; 574 G; 347 T; 0 other;

Query Match 100.0%; Score 1876; DB 20; Length 1876;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCCTTTTTCACAGCCAGCCTGACTCCTGGAGATTGTGAATAGCTCCATCCAGCCTG 60  
 DB 1 CTCCTTTTTCACAGCCAGCCTGACTCCTGGAGATTGTGAATAGCTCCATCCAGCCTG 60  
 QY 61 AGAAACAAGCCGGTGGCTGAGCGAGCTGTGCACGAGCACCTGACGGGCCCCAACAGAC 120  
 DB 61 AGAAACAAGCCGGTGGCTGAGCGAGCTGTGCACGAGCACCTGACGGGCCCCAACAGAC 120  
 QY 121 CCATGCTGCATCCAGAGAGCTCCCTTGGCCGGGGGATCTCTCTGGTGTGTCTCTGGGCC 180  
 DB 121 CCATGCTGCATCCAGAGAGCTCCCTTGGCCGGGGGATCTCTCTGGTGTGTCTCTGGGCC 180  
 QY 181 TCCTTGGCACCACCTGGGCAGAGGTGTGCCACCCAGCTGCAGGAGCAGCTCCGATGG 240  
 DB 181 TCCTTGGCACCACCTGGGCAGAGGTGTGCCACCCAGCTGCAGGAGCAGCTCCGATGG 240  
 QY 241 CCGGAGCCCTGAACAGGAGAGAGTTCTTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300  
 DB 241 CCGGAGCCCTGAACAGGAGAGAGTTCTTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300  
 QY 301 GCTGGGTCCAGCCCTTGGCGCTGACATCGGAGGCTGGAGTGGAGTGCAGCTGGGCC 360  
 DB 301 GCTGGGTCCAGCCCTTGGCGCTGACATCGGAGGCTGGAGTGGAGTGCAGCTGGGCC 360  
 QY 361 AACTGGCTCAGCCAGGCGAGCCCTCTGTGGAATCCAAACCCAGCAGCTGGCATCCGGCC 420  
 DB 361 AACTGGCTCAGCCAGGCGAGCCCTCTGTGGAATCCAAACCCAGCAGCTGGCATCCGGCC 420  
 QY 421 TGTGGCGCACCTCGCAAGTGGGTGGAACATGCAGCTGTGCCCGCGGGCTTGGCGTCT 480  
 DB 421 TGTGGCGCACCTCGCAAGTGGGTGGAACATGCAGCTGTGCCCGCGGGCTTGGCGTCT 480

QY 481 TTGTTGAAGTGTGTCAGGCTATGTTTSCAGAGGGGACAGCGGTACAGCCACCGCGCAGGAG 540  
Db 481 TTGTTGAAGTGTGTCAGGCTATGTTTSCAGAGGGGACAGCGGTACAGCCACCGCGCAGGAG 540  
QY 541 AGTGTGCTCGCAACGCCACCTGCACCACTACAGGAGCTCGTGTGGCCACCTCAAGCC 600  
Db 541 AGTGTGCTCGCAACGCCACCTGCACCACTACAGGAGCTCGTGTGGCCACCTCAAGCC 600  
QY 601 AGCTGGGCTGTGGGCGGACCTGTGCTGTGAGGCGGACAGAGCCATAGAAAGCTTTTGCT 660  
Db 601 AGCTGGGCTGTGGGCGGACCTGTGCTGTGAGGCGGACAGAGCCATAGAAAGCTTTTGCT 660  
QY 661 GTCCCTACTCCCGGAGGCAACTGGGAGGTCAACGGGAAGACAAATCATCCCTTATAAGA 720  
Db 661 GTCCCTACTCCCGGAGGCAACTGGGAGGTCAACGGGAAGACAAATCATCCCTTATAAGA 720  
QY 721 AGGGTGCCTGGTGTGCTGTGACAGCCAGTGTCTCAGGCTGCTTCAAGCCCTGGGACC 780  
Db 721 AGGGTGCCTGGTGTGCTGTGACAGCCAGTGTCTCAGGCTGCTTCAAGCCCTGGGACC 780  
QY 781 ATCAGGGGGGCTCTGTGAGTGTCCCAAGGAATCCTTGTGATGAGTGTCCAGAGCAACATG 840  
Db 781 ATCAGGGGGGCTCTGTGAGTGTCCCAAGGAATCCTTGTGATGAGTGTCCAGAGCAACATG 840  
QY 841 GAGCTCTCAACATCAGCACTGCCACTGCCACTGTCCCTGCTACACGGGCGAGATACT 900  
Db 841 GAGCTCTCAACATCAGCACTGCCACTGCCACTGTCCCTGCTACACGGGCGAGATACT 900  
QY 901 GCCAAGTGAAGTGCAGGCTCAGTGTGTGACGGCCGGTTCGGGGAGGAGAGTGTCTGT 960  
Db 901 GCCAAGTGAAGTGCAGGCTCAGTGTGTGACGGCCGGTTCGGGGAGGAGAGTGTCTGT 960  
QY 961 GCCTGTGTACATCGGCTACGGGGAGCCAGTGTGACCAAGGTGCATTTTCCCTTCC 1020  
Db 961 GCCTGTGTACATCGGCTACGGGGAGCCAGTGTGACCAAGGTGCATTTTCCCTTCC 1020  
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Db 1021 ACACCTGTGACCTGAGGATCGACGGAGACTGCTTCATGGTGTCTTACAGAGCAGACACT 1080  
QY 1081 ATTACAGAGCCAGATGAATGTTCAGAGGAAGAGCGGGGTGCTGGCCAGATCAAGAGCC 1140  
Db 1081 ATTACAGAGCCAGATGAATGTTCAGAGGAAGAGCGGGGTGCTGGCCAGATCAAGAGCC 1140  
QY 1141 AGAAGTGAAGGATCTCTGCTCTTATCTTGGCCCGCTTGGAGACCAACCAAGAGTGA 1200  
Db 1141 AGAAGTGAAGGATCTCTGCTCTTATCTTGGCCCGCTTGGAGACCAACCAAGAGTGA 1200  
QY 1201 CTGACAGTGAATTCGAGACCAAGGAATCTTGGATCGGGCTCACCTACAAGACCGCCAAAG 1260  
Db 1201 CTGACAGTGAATTCGAGACCAAGGAATCTTGGATCGGGCTCACCTACAAGACCGCCAAAG 1260  
QY 1261 ACTCCTTCGCTGGGCGACAGGGAGACCAAGGCTTACACAGTTTTCCTTGGGCGAGC 1320  
Db 1261 ACTCCTTCGCTGGGCGACAGGGAGACCAAGGCTTACACAGTTTTCCTTGGGCGAGC 1320  
QY 1321 CTGACAAACCAAGGCTGTGTGTGCTGAGTGTGCTGATGGGGTGTGGCACTTCGCTGGAGC 1380  
Db 1321 CTGACAAACCAAGGCTGTGTGTGCTGAGTGTGCTGATGGGGTGTGGCACTTCGCTGGAGC 1380  
QY 1381 TGCAGGCTTCAGCTGCTTCAACTGGAACGACGAGCGCTGCMAAACCCGAAACCGTTACA 1440  
Db 1381 TGCAGGCTTCAGCTGCTTCAACTGGAACGACGAGCGCTGCMAAACCCGAAACCGTTACA 1440  
QY 1441 TCTGCCAGTTTCCAGGAGCAGATCTCCGGTGGGGCCAGGCTCTGTAGGCGCTGACCA 1500  
Db 1441 TCTGCCAGTTTCCAGGAGCAGATCTCCGGTGGGGCCAGGCTCTGTAGGCGCTGACCA 1500  
QY 1501 CATGGCTCCCTCGCTGCTTGGGAGCAGCGCTTACCTGTCTGTGCCCACCTGTCT 1560  
Db 1501 CATGGCTCCCTCGCTGCTTGGGAGCAGCGCTTACCTGTCTGTGCCCACCTGTCT 1560

QY 1561 GGAACAAGGGCCAGGTTAAGACACACATGCTCATGTCCAAGAGGTCTCAGACCTTGCAC 1620  
Db 1561 GGAACAAGGGCCAGGTTAAGACACACATGCTCATGTCCAAGAGGTCTCAGACCTTGCAC 1620  
QY 1621 AATGCCAGAGTGGCAGAGAGAGAGGAGGAGCCAGTGTGGCCAGGAGTGTGTT 1680  
Db 1621 AATGCCAGAGTGGCAGAGAGAGAGGAGGAGCCAGTGTGGCCAGGAGTGTGTT 1680  
QY 1681 AGAAGAAGCTGGGGCCCTTCCGCTGCTTTTGTATTGGGAAGATGGGCTTCAATTAGATGGC 1740  
Db 1681 AGAAGAAGCTGGGGCCCTTCCGCTGCTTTTGTATTGGGAAGATGGGCTTCAATTAGATGGC 1740  
QY 1741 GAAGGAGAGGACACCGCCAGTGTGTCCAAAAGGCTGTCTTCCACCTGGCCAGACCC 1800  
Db 1741 GAAGGAGAGGACACCGCCAGTGTGTCCAAAAGGCTGTCTTCCACCTGGCCAGACCC 1800  
QY 1801 TGTGGGGCAGCGAGCTTCCCTGTGCGATGACCCACCGGGGTATTAAATATGAATCAG 1860  
Db 1801 TGTGGGGCAGCGAGCTTCCCTGTGCGATGACCCACCGGGGTATTAAATATGAATCAG 1860  
QY 1861 CTGAAAAAATAAAAAA 1876  
Db 1861 CTGAAAAAATAAAAAA 1876

RESULT 2  
AAAX80053  
ID AAAX80053 standard; cDNA; 1876 BP.  
AC AAAX80053;  
DT 12-AUG-1999 (first entry)  
XX Human PRO347 nucleotide sequence.  
XX Human; PRO protein; tumour necrosis factor family; TNF; cytokine;  
KW secreted protein; transmembrane protein; inflammation disorder; sa.  
XX Homo sapiens.  
XX WO9928462-A2.  
PD 10-JUN-1999.  
XX 01-DEC-1998; 98WO-US25108.  
XX 25-FEB-1998; 98US-0075945.  
PR 03-DEC-1997; 97US-0067411.  
PR 11-DEC-1997; 97US-0069278.  
PR 11-DEC-1997; 97US-0069334.  
PR 11-DEC-1997; 97US-0069335.  
PR 12-DEC-1997; 97US-0069425.  
PR 16-DEC-1997; 97US-0069694.  
PR 16-DEC-1997; 97US-0069702.  
PR 17-DEC-1997; 97US-0069870.  
PR 17-DEC-1997; 97US-0069873.  
PR 18-DEC-1997; 97US-0068017.  
PR 05-JAN-1998; 98US-0070440.  
PR 09-FEB-1998; 98US-0074086.  
PR 09-FEB-1998; 98US-0074092.  
XX (GETH ) GENENTECH INC.  
XX Baker KP, Chen J, Goddard A, Gurney AL, Wood WI;  
PI Yuan J;  
XX WPI; 1999-371118/31.  
XX P-PSDB; AAY17828.  
DR Nucleic acids encoding PRO secreted and transmembrane proteins  
PT Claim 2; Fig 22; 123pp; English.  
PS

XX The present invention describes nucleic acids encoding PRO secreted and transmembrane proteins used therapeutically. The PRO proteins have CC cytotatic, anti-inflammatory, anti-proliferative and immunosuppressive CC activity. The proteins and polynucleotides can be used in therapy, CC identification of homologues, raising antibodies and design of probes CC and primers. They can be used in a range of diseases related to proteins CC that they have homology with, e.g. a PRO protein having homology to CC complement proteins may be used in inflammatory responses.

XX SQ Sequence 1876 BP; 387 A; 568 C; 574 G; 347 T; 0 other;

Query Match 100.0%; Score 1876; DB 20; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCTTTGTCCACAGCCAGCCCTGACTCTCTGGAGATTGTGAATAGCTCCATCCAGCCCTG 60  
DB 1 CTCTTTGTCCACAGCCAGCCCTGACTCTCTGGAGATTGTGAATAGCTCCATCCAGCCCTG 60  
QY 61 AGAAACAAGCCGGTGGCTGAGCCAGGCTGTGCACGGAGACCTTACCGGGCCCAACAGAC 120  
DB 61 AGAAACAAGCCGGTGGCTGAGCCAGGCTGTGCACGGAGACCTTACCGGGCCCAACAGAC 120  
QY 121 CCATGCTGCATCCAGAGACCTCCCTGGCCGGGGGATCTCTGCTGTGCTCTGCTGGCC 180  
DB 121 CCATGCTGCATCCAGAGACCTCCCTGGCCGGGGGATCTCTGCTGTGCTCTGCTGGCC 180  
QY 181 TCCTTGGCACACCTGGGAGAGGTGTGGCCACCCAGCTGCAGGAGAGGCTCCGATGG 240  
DB 181 TCCTTGGCACACCTGGGAGAGGTGTGGCCACCCAGCTGCAGGAGAGGCTCCGATGG 240  
QY 241 CCGAGGCCCTGAACAGGAAGAGAGTTTCTTGTCTCTCCCTGCACAAACCCCTCGCA 300  
DB 241 CCGAGGCCCTGAACAGGAAGAGAGTTTCTTGTCTCTCCCTGCACAAACCCCTCGCA 300  
QY 301 GCTGGTCCAGCCCTCGCGCTGACATGCGGAGGCTGAGTGGAGTGCAGACCTGGCC 360  
DB 301 GCTGGTCCAGCCCTCGCGCTGACATGCGGAGGCTGAGTGGAGTGCAGACCTGGCC 360  
QY 361 AACTGGCTCAAGCCAGGCGAGCCCTCTGTGAATCCCAACCCGAGCTGGCATCGGCC 420  
DB 361 AACTGGCTCAAGCCAGGCGAGCCCTCTGTGAATCCCAACCCGAGCTGGCATCGGCC 420  
QY 421 TGTGGCGCACCCCTGCAAGTGGGCTGGAACATGCAGTCTGCTGCCCGGGCTTGGCGTCT 480  
DB 421 TGTGGCGCACCCCTGCAAGTGGGCTGGAACATGCAGTCTGCTGCCCGGGCTTGGCGTCT 480  
QY 481 TTCTTGAAGTGGTCAGCCTATGTTTGCAGAGGGCAGCGGTACAGCCACGGCGGAGAG 540  
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DB 541 AGTGTGCTCGCAACGCCACCTGCACCCACTACAGCAGCTCGTGTGGGCCACTCAAGCC 600  
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DB 601 AGCTGGGCTGTGGCGGCACCTGTGCTCTGCAGGCCAGACGCGATAGAAGCCTTGTCT 660  
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DB 661 GTGCCCTACTCCCCGGAGGCAACTGGGAGGTCAACGGGAACACATCATCCCTATAAGA 720  
QY 721 AGGGTGCCTGTGCTCTGCACAGCCAGTGTCTCAGGTGCTTCAAGGCTGGGACC 780  
DB 721 AGGGTGCCTGTGCTCTGCACAGCCAGTGTCTCAGGTGCTTCAAGGCTGGGACC 780  
QY 781 ATGACGGGGGCTCTGTGAGTCTCCCGAGGAATCTTGTGCGATGAGTCCCAAGCCATG 840  
DB 781 ATGACGGGGGCTCTGTGAGTCTCCCGAGGAATCTTGTGCGATGAGTCCCAAGCCATG 840  
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DB 841 GACGTCTACATCAGCACCTGCCACTGTCCCTGTCCCTGTACACGGCAGATACT 900  
QY 901 GCCAAGTGAGTGCAGCCTGCACTGTGTGCACGGCCGGTCCCGGAGGAGTGCCTCGT 960  
DB 901 GCCAAGTGAGTGCAGCCTGCACTGTGTGCACGGCCGGTCCCGGAGGAGTGCCTCGT 960  
QY 961 GCGTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCCAAGGTGCATTTCCCTTCC 1020  
DB 961 GCGTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCCAAGGTGCATTTCCCTTCC 1020  
QY 1021 ACACCTGTGACCTGAGGATCGAGAGACTGTCTATGTGTCTTACAGAGCAGACACT 1080  
DB 1021 ACACCTGTGACCTGAGGATCGAGAGACTGTCTATGTGTCTTACAGAGCAGACACT 1080  
QY 1081 ATTACAGAGCCAGGATGAATCTCAGAGAAAGCGGGTGTGGCCCAAGATCAAGAGCC 1140  
DB 1081 ATTACAGAGCCAGGATGAATCTCAGAGAAAGCGGGTGTGGCCCAAGATCAAGAGCC 1140  
QY 1141 AGAAGTGCAGGACATCTCGCCTTCTATCTGTGGCCGCCCTGGAGACCACCAAGGTGA 1200  
DB 1141 AGAAGTGCAGGACATCTCGCCTTCTATCTGTGGCCGCCCTGGAGACCACCAAGGTGA 1200  
QY 1201 CTGACAGTGACTTCGAGACAGGAATCTTGTGATCGGGCTCACCCTACAGACCCTCAAG 1260  
DB 1201 CTGACAGTGACTTCGAGACAGGAATCTTGTGATCGGGCTCACCCTACAGACCCTCAAG 1260  
QY 1261 ACTCCTTCCGCTGGCCACAGGGGAGCACAGGCCCTTACACAGTTTGGCTTTGGGCGAG 1320  
DB 1261 ACTCCTTCCGCTGGCCACAGGGGAGCACAGGCCCTTACACAGTTTGGCTTTGGGCGAG 1320  
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DB 1321 CTGACAAACACCGGCTGTGTGGCTGAGTGTGCTTCCATGGGGTTTGGCACTGCGTGAGC 1380  
QY 1381 TGCAGGCTTCAAGTGCCTTCAACTGGAAGACAGCAGCGCTGCAAAACCCGAAACCGTTACA 1440  
DB 1381 TGCAGGCTTCAAGTGCCTTCAACTGGAAGACAGCAGCGCTGCAAAACCCGAAACCGTTACA 1440  
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DB 1441 TCTGCCAGTTTCCAGGAGCACATCTCCGCTGGGGCCAGGGTCTCTGAGGCTGACCA 1500  
QY 1501 CATGGCTCCCTCGCCTGCGGCTGAGGACACCGCTCTGTCTTACCTGTCTGCCCACTGTCT 1560  
DB 1501 CATGGCTCCCTCGCCTGCGGCTGAGGACACCGCTCTGTCTTACCTGTCTGCCCACTGTCT 1560  
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DB 1681 AGAAGAAGCTGGGGCCCTTCCGCTTGTGATTTGATTTGGAAGAGTGGCTTCAATTAGATGGC 1740  
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DB 1741 GAAGGAGAGGACACCGCCAGTGGTCCAAAGAGGCTCTCTTCCACCTGCGCCAGACCC 1800  
QY 1801 TGTGGGGCAGCGAGCTTCCCTGTGGCATGAACCCCAAGGGGTATTAATTTATGAATCAG 1860  
DB 1801 TGTGGGGCAGCGAGCTTCCCTGTGGCATGAACCCCAAGGGGTATTAATTTATGAATCAG 1860  
QY 1861 CTGAAAAAATAAAAA 1876  
DB 1861 CTGAAAAAATAAAAA 1876

RESULT 3







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QY 541 AGTGTGCTCGCAACGCCACCTGCACCCCACTACACACAGAGCTCGTGTGGGCCACCTCAAGCC 600
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Db 601 AGCTGGGCTGTGGGGGACCTGTGCTGTGAGGCGGACAGACGATAGAGCGTTTGTCT 660
QY 661 GTGCTACTCCCCGGAGGCAACTGGGAGGTCAAGGGGAAGACAATCATCCCCATTAAGA 720
Db 661 GTGCTACTCCCCGGAGGCAACTGGGAGGTCAAGGGGAAGACAATCATCCCCATTAAGA 720
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Db 721 AGGTGTGCTGTGCTGTGCTGTGACAGCAGTGTCTCAGGCTGTCTCAAGGCTGGGACC 780
QY 781 ATGAGGGGGCTGTGAGGTGCCAGGAAATCTTGTGCGATGAGCTGCCAGAACCATG 840
Db 781 ATGAGGGGGCTGTGAGGTGCCAGGAAATCTTGTGCGATGAGCTGCCAGAACCATG 840
QY 841 GAGTCTCAACATCAGCACCTGCCACTGCCACTGTCCCTGGCTACACGGGCGAGATACT 900
Db 841 GAGTCTCAACATCAGCACCTGCCACTGCCACTGTCCCTGGCTACACGGGCGAGATACT 900
QY 901 GCCAAGTGAGGTGAGCTGCACTGTGTGACGCGCGGTTCGGGGAGGAGGTGCTCGT 960
Db 901 GCCAAGTGAGGTGAGCTGCACTGTGTGACGCGCGGTTCGGGGAGGAGGTGCTCGT 960
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Db 961 GCCTGTGTGATCGGCTACGGGGAGGAGGAGTGTGCGCCAGGAGTGTCTTCCCTTCC 1020
QY 1021 ACACCTGTGACCTGAGATCAGGAGACTGCTTTCATGCTGTCTCAGAGGAGACACCT 1080
Db 1021 ACACCTGTGACCTGAGATCAGGAGACTGCTTTCATGCTGTCTCAGAGGAGACACCT 1080
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Db 1081 ATTACAGAGCAGGATGAATGTTCAGAGGAAGGCGGGTGTGCGCCAGATCAAGAGCC 1140
QY 1141 AGAAGTGCAGGACATCTCGCTCTTATCTGGGCGCGCTGGAGACCAACAGAGGTGA 1200
Db 1141 AGAAGTGCAGGACATCTCGCTCTTATCTGGGCGCGCTGGAGACCAACAGAGGTGA 1200
QY 1201 CTGACAGTACTTCGAGACAGGACTTCTGATGGGCTCACCTACAGACCGCCAAAG 1260
Db 1201 CTGACAGTACTTCGAGACAGGACTTCTGATGGGCTCACCTACAGACCGCCAAAG 1260
QY 1261 ACTCCTTCGCTGGGCGCACAGGGAGCACAGGCGCTTACCAAGTTTGTCTTGGGCAGC 1320
Db 1261 ACTCCTTCGCTGGGCGCACAGGGAGCACAGGCGCTTACCAAGTTTGTCTTGGGCAGC 1320
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Db 1381 TGCAGGCTTCAGCTGCTTCAACTGGAACGACGCGCTGCAAAACCCGAAACCGTTACA 1440
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Db 1501 CATGGCTCCCTCGCTGCCCTGGGAGCACCGGCTGTCTTACCTGTCTGCCACCTGTCT 1560
QY 1561 GGAACAGGGCCAGGTTAAGACCACATGCCCTATGTCCTCAAGAGGTTCTCAGACCTTGCAC 1620
Db 1561 GGAACAGGGCCAGGTTAAGACCACATGCCCTATGTCCTCAAGAGGTTCTCAGACCTTGCAC 1620
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QY 1621 AATGCCAGAAGTTGGGACAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGT 1680
Db 1621 AATGCCAGAAGTTGGGACAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGT 1680
QY 1681 AGAAGAAGCTGGGGCCCTTCGCTTGTGATTGGGAAGATGGGCTTCAATTAGATGCG 1740
Db 1681 AGAAGAAGCTGGGGCCCTTCGCTTGTGATTGGGAAGATGGGCTTCAATTAGATGCG 1740
QY 1741 GAAGGAGAGGACACGCGCCACTGTGTCACAAAAGGCTGCTCTTCCACTGGCCAGACCC 1800
Db 1741 GAAGGAGAGGACACGCGCCACTGTGTCACAAAAGGCTGCTCTTCCACTGGCCAGACCC 1800
QY 1801 TGTGGGCGACGCGAGCTTCCCTGTGGCATGAACCCACGCGGTATTAATATGAATCAG 1860
Db 1801 TGTGGGCGACGCGAGCTTCCCTGTGGCATGAACCCACGCGGTATTAATATGAATCAG 1860
QY 1861 CTGAAAAAATAAAAAA 1876
Db 1861 CTGAAAAAATAAAAAA 1876

RESULT 5
AADI2570
ID AADI2570 standard; cDNA; 1775 BP.
XX
AC AADI2570;
XX
DT 25-SEP-2001 (first entry)
XX
DE Human protein having hydrophobic domain encoding cDNA clone HP10760.
XX
KW Human; hydrophobic domain; gene therapy; nutritional supplement;
KW cell proliferation; immunomodulatory; autoimmune disorder; antimicrobial;
KW multiple sclerosis; rheumatoid arthritis; insulin-dependent diabetes;
KW haematopoiesis; tissue growth activity; Parkinson's disease; cytostatic;
KW Huntington's disease; Alzheimer's disease; chemotactic; chemokinetic;
KW haemostatic; thrombolytic; tumour growth inhibitor; anabolic;
KW contraceptive; antiinfertility; antiinflammatory; ss.
XX
OS Homo sapiens.
XX
Key Location/Qualifiers
CDS 62..1402
FT /*tag= a
FT /product= "Human protein having hydrophobic domain"
FT /note= "CDS is specifically is claimed in claim 3"
FT sig_peptide 62..142
FT /*tag= b
FT mat_peptide 143..1399
FT /*tag= c
FT /product= "Mature human protein with hydrophobic domain"
XX
WO200149728-A2.
PN
XX
PD 12-JUL-2001.
XX
PF 28-DEC-2000; 2000WO-JP09359.
XX
PR 06-JAN-2000; 2000JP-0000585.
PR 06-JAN-2000; 2000JP-0000588.
PR 11-JAN-2000; 2000JP-0002299.
PR 03-FEB-2000; 2000JP-0026862.
PR 03-MAR-2000; 2000JP-0058367.
XX
PA (PROT-) PROTEGENE INC.
PA (SAGA) SAGAMI CHEM RES CENT.
XX
PI Kato S, Kimura T;
XX
DR WPI; 2001-418355/44.
DR P-PSDB; AAE06575.
XX
PT Human proteins with hydrophobic domains and the nucleic acids encoding
```





KW apoptotic disorder; rheumatoid arthritis; cardiant; renal disorder;  
KW hepatotropic; antipsoriatic; antiallergic; dermatological; virucide;  
KW T139; gene; ss.

OS Homo sapiens.

XX Key Location/Qualifiers

FT CDS 95..1435

FT /tag= a "Human T139 protein"

FT /product= a

FT /tag= b

FT /tag= c

FT /product= "Human mature T139 protein"

FT /tag= d

FT /note= "This region designated as SEQ.ID.NO.3 is

FT specifically referred in claim 27"

XX US2002028508-A1.

PN 07-MAR-2002.

XX 21-FEB-2001; 2001US-0790264.

XX 23-APR-1998; 98US-0065363.

XX 23-APR-1998; 98US-0065661.

PR 22-JUN-1998; 98US-0102705.

PR 29-JUL-1998; 98US-0124538.

PR 23-APR-1999; 99US-0298531.

PR 22-JUN-1999; 99US-0337930.

PR 29-JUL-1999; 99US-0363630.

XX (HOLT/) HOLTZMAN D A.

PA (GOOD/) GOODEARL A D J.

PA (MCCA/) MCCARTHY S A.

XX Holtzman DA, Goodearl ADJ, McCarthy SA;

XX WPI; 2002-303420/34.

DR P-PSDB; AAE21077.

XX Novel TANGO polypeptides and nucleic acid molecules useful as

PT modulating agents in regulating cellular processes and for diagnosing

PT and treating heart, liver, lung, kidney, inflammatory and cellular

PT proliferative disorders

XX Claim 26; Fig 1; 138pp; English.

XX The invention relates to nucleic acids encoding a variety of proteins

CC human T139 (TANGO-139), T125 (TANGO-125), T110 (TANGO-110), murine T175

CC (TANGO-175), human T175 or murine WDNM-2, having diagnostic, preventive,

CC therapeutic and other uses. Polypeptide of the invention has the ability

CC to inhibit a proteinase activity, to modulate cell-cell interactions,

CC haematopoiesis and the ability to modulate clotting. Polypeptide and

CC polynucleotide of the invention are useful for diagnosing and treating

CC disorder characterised by their aberrant expression or activity. The

CC antibodies are useful as modulating agents in regulating a variety of

CC cellular processes e.g. cell proliferation and/or cell differentiation.

CC TANGO-139 is useful for treating kidney defects such as kidney failure.

CC TANGO-125 is useful in wound healing and for treating cancer, TANGO-110

CC is useful for treating neoplasia, TANGO-177 or WDNM-2 is useful for

CC treating cancer, are useful to treat pancreatic disorders, such as

CC pancreatitis, cerebrovascular disease, and tumours, and injury or trauma

CC to the brain. TANGO-125, 110, 175 molecules treat heart disorders, e.g.,

CC ischaemic heart disease, cardiovascular disorders, such as ischaemic

CC heart disease. TANGO-139, 125, 110 and 175 molecules are useful to treat

CC renal (kidney) disorders, such as glomerular disease (e.g., acute and

CC chronic glomerulonephritis), TANGO-175 is useful to treat uterine

CC disorders, hyperplasia of the endometrium. TANGO-110 is useful to treat

CC spleen, e.g., the fetal spleen, associated diseases and disorder. TANGO-

CC 125 treats prostate disorders, such as inflammatory diseases, Crohn's

CC disease and tumours. TANGO-139, 125, 110, 175 or WDNM-2 are useful for  
CC treating proliferative disorders, inflammatory disorders, TANGO-175, or  
CC WDNM-2 activity also include apoptotic disorders, rheumatoid arthritis,  
CC systemic lupus erythematosus, insulin-dependent diabetes mellitus,  
CC immune-related disorders, e.g., immunodeficiency disorders, viral  
CC disorders, cell growth disorders, e.g., cancers and inflammatory  
CC disorders and apoptotic disorders. The nucleic acids of the invention  
CC are used in gene therapy. The present sequence is human T139 CDNA.

XX Sequence 1856 BP; 402 A; 560 C; 564 G; 330 T; 0 other;

Query Match 54.9%; Score 1029; DB 24; Length 1856;

Best Local Similarity 99.7%; Pred. No. 0;

Matches 1229; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 102 CCTGACGGGCGCAACAGACCCATGCTGCATCCAGAGACCTCCCTGCGCGGGGCACTC 161

Db 74 CCTGACGGGCGCAACAGACCCATGCTGCATCCAGAGACCTCCCTGCGCGGGGCACTC 133

QY 162 CTGGCTGTGCTCTCTGGCCCTCTTGGCACCACCTGGCGAGAGGTGTGCCACCCAGCTG 221

Db 134 CTGGCTGTGCTCTCTGGCCCTCTTGGCACCACCTGGCGAGAGGTGTGCCACCCAGCTG 193

QY 222 CAGGAGCAGGCTCCGATGGCGGAGCCCTGAACAGGAAGAGAGTTTCTTCTCTCTCC 281

Db 194 CAGGAGCAGGCTCCGATGGCGGAGCCCTGAACAGGAAGAGAGTTTCTTCTCTCTCC 253

QY 282 CTGCACAAACCGCTCGGAGCTGGGTTCAGAGCCCTTGGCGGCTGACATGCGGAGCTGGAC 341

Db 254 CTGCACAAACCGCTCGGAGCTGGGTTCAGAGCCCTTGGCGGCTGACATGCGGAGCTGGAC 313

QY 342 TGGAGTGACACCTGGCCCAACTGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACC 401

Db 314 TGGAGTGACACCTGGCCCAACTGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACC 373

QY 402 CCGAGCCTGGCATCCGGCTGTGGCGCACCCCTGCAAGTGGGCTGGAACATGCAAGCTG 461

Db 374 CCGAGCCTGGCATCCGGCTGTGGCGCACCCCTGCAAGTGGGCTGGAACATGCAAGCTG 433

QY 462 CCCCGGGCTTGGCGTCTCTTGAAGTGGTCAAGCTTGGTTCAGAGGGGCGACGG 521

Db 434 CCCCGGGCTTGGCGTCTCTTGAAGTGGTCAAGCTTGGTTCAGAGGGGCGACGG 493

QY 522 TACAGCCACCGCGGAGAGAGTGTCTCGCAACGCCACCTGCAACCACTACAGCAGCTC 581

Db 494 TACAGCCACCGCGGAGAGAGTGTCTCGCAACGCCACCTGCAACCACTACAGCAGCTC 553

QY 582 GTGTGGGCGCACTCAAGCCAGCTGGGCTGTGGGCGGCACTGTGTCTTGCAGGCGCAGCA 641

Db 554 GTGTGGGCGCACTCAAGCCAGCTGGGCTGTGGGCGGCACTGTGTCTTGCAGGCGCAGCA 613

QY 642 GCGATAGAAGCTTGTCTGCTTACTCCCTTACTCCCGGAGGCACTGGGAGGTCAACGGGAAG 701

Db 614 GCGATAGAAGCTTGTCTGCTTACTCCCTTACTCCCGGAGGCACTGGGAGGTCAACGGGAAG 673

QY 702 ACAATCATCCCTTAAGAAGGCTGCTTCTGCTTCTGCTGCAAGCAGCTGTCTCAGGC 761

Db 674 ACAATCATCCCTTAAGAAGGCTGCTTCTGCTTCTGCTGCAAGCAGCTGTCTCAGGC 733

QY 762 TGCTTAAAGCTTGGGAGGCTGAGGGGGCTGTGTGAGGTCCCGAGGAATCTTGTTCGC 821

Db 734 TGCTTAAAGCTTGGGAGGCTGAGGGGGCTGTGTGAGGTCCCGAGGAATCTTGTTCGC 793

QY 822 ATGAGCTGCCAAGACCTGAGCTCTCAACATCAGCAGCTGCCACTGCCACTTCCCTTCCCT 881

Db 794 ATGAGCTGCCAAGACCTGAGCTCTCAACATCAGCAGCTGCCACTGCCACTTCCCTTCCCT 853

QY 882 GGCTACACGGGAGATCTGCAAGTGGAGGTGAGCTGAGCTGTGTGACAGCGCGGCTTC 941

Db 854 GGCTACACGGGAGATCTGCAAGTGGAGGTGAGCTGAGCTGTGTGACAGCGCGGCTTC 913

QY 942 CGGAGGAGGAGTGTCTGTGCTGTGACATCGGCTAGCGGGGAGCCAGTGTGCCACC 1001

|||||

Db 914 CGGGAGGAGAGTGCTCGTGGCTGTGACATCGGCTACGGGGGAGGCCAGTGTGCCACC 973  
QY 1002 AAGTGCAATTTCCCTCCACACCTGTGACCTGAGGATCGACGAGACTGTTTCATGGTG 1061  
Db 974 AAGTGCAATTTCCCTCCACACCTGTGACCTGAGGATCGACGAGACTGTTTCATGGTG 1033  
QY 1062 TCTTTCAGAGGAGACACCTATTATACAGAGCCAGGATGAAATGTCAAGAGAAAGCGGGGTG 1121  
Db 1034 TCTTTCAGAGGAGACACCTATTATACAGAGCCAGGATGAAATGTCAAGAGAAAGCGGGGTG 1093  
QY 1122 CTGGCCAGATCAAGAGCCAGAAAGTGCAGAGATTCCTCGCTTCTATCTGGGCCGCGTG 1181  
Db 1094 CTGGCCAGATCAAGAGCCAGAAAGTGCAGAGATTCCTCGCTTCTATCTGGGCCGCGTG 1153  
QY 1182 GAGACACCAACAGAGTGACTGACAGTGACTTCGAGACCAAGGAACTTCTGTGATCGGGCTC 1241  
Db 1154 GAGACACCAACAGAGTGATGACAGTGACTTCGAGACCAAGGAACTTCTGTGATCGGGCTC 1213  
QY 1242 ACCTACAAGACCCCAAGGACTCCTTCCTCGCTGGGCCACAGGGAGCACAGGCCCTTCACC 1301  
Db 1214 ACCTACAAGACCCCAAGGACTCCTTCCTCGCTGGGCCACAGGGAGCACAGGCCCTTCACC 1273  
QY 1302 AGTTTTCCTTTGGGAGCCCTGACACACCGGG 1334  
Db 1274 AGTTTTCCTTTGGGAGCCCTGACACACCGGG 1306

## RESULT 8

AAF24152

ID AAF24152 standard; DNA; 1923 BP.

XX AC

AAF24152;

XX DT

23-MAR-2001 (first entry)

XX DE

Human secreted protein DNA #2.

XX KW

Secreted protein; gene therapy; vaccine; cancer; leukemia;

XX KW

autoimmune disease; allergy; inflammation; graft rejection;

XX KW

hyperproliferation; cardiovascular; infection; ds.

XX OS

Homo sapiens.

XX PN

W0200075375-A1.

XX PD

14-DEC-2000.

XX PF

02-JUN-2000; 2000WO-US15187.

XX PR

07-JUN-1999; 99US-0137725.

XX PA

(HUMA-) HUMAN GENOME SCI INC.

XX PI

Ruben SM, Birse CE, Duan RD, Soppet DR, Rosen CA, Shi Y;

XX PI

Lafleur DW, Olsen HS, Ebner R, Florence KA, Ni J, Young PE;

XX DR

WPI; 2001-061741/07.

XX XX

Nucleic acids encoding 26 human secreted polypeptides, useful e.g. for

XX PT

preventing, diagnosing and/or treating cancers and for promoting wound

XX PT

healing -

XX PS

Claim 1; Page 416-417; 530pp; English.

XX CC

The present invention relates to 26 secreted human proteins. The

XX CC

proteins may be used in the prevention, diagnosis and treatment of

XX CC

diseases associated with inappropriate polypeptide expression.

XX CC

For example, they may be used in gene therapy or in vaccines.

XX CC

Typical of diseases which are potentially treatable are cancers

XX CC

(including leukemia), autoimmune diseases, allergies, inflammation,

XX CC

graft rejection, hyperproliferation, cardiovascular diseases

XX CC

(particularly critical limb ischemia and coronary disease) and any

XX CC

involving abnormal angiogenesis, neurodegeneration and/or

CC infectious diseases.

XX SQ

Sequence 1923 BP; 444 A; 568 C; 569 G; 342 T; 0 other;

Query Match

Best Local Similarity 54.9%; Score 1029; DB 22; Length 1923;

Matches 1229; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 102

CCTGAGCGGCCCAACAGACCCATGCTGCCATCCAGAGACCTCCCTGCGCGGGGCATCTC 161

Db 119

CCTGAGCGGCCCAACAGACCCATGCTGCCATCCAGAGACCTCCCTGCGCGGGGCATCTC 178

QY 162

CTGGGTGTCTCTCTGCGCCCTCTTGGCACACACCTGGSCAGAGGTGTGCCACCCAGCTG 221

Db 179

CTGGGTGTCTCTCTGCGCCCTCTTGGCACACACCTGGSCAGAGGTGTGCCACCCAGCTG 238

QY 222

CAGGAGCAGGCTCCGATGGCCGAGCCCTGAACAGGAGAGAGTTTCTTGTCTCTCTCC 281

Db 239

CAGGAGCAGGCTCCGATGGCCGAGCCCTGAACAGGAGAGAGTTTCTTGTCTCTCTCC 298

QY 282

CTGCACAAACCGCTGCGCAGCTGGGTCCAGCCCTCGCGCTGACATGCGGAGGCTGGAC 341

Db 299

CTGCACAAACCGCTGCGCAGCTGGGTCCAGCCCTCGCGCTGACATGCGGAGGCTGGAC 358

QY 342

TGGAGTGACAGCCTGGCCCAACTGGCTCAAGCCAGGSCAGCCCTCTCTGGAATCCCAACC 401

Db 359

TGGAGTGACAGCCTGGCCCAACTGGCTCAAGCCAGGSCAGCCCTCTCTGGAATCCCAACC 418

QY 402

CCGAGCCTGGCATCCGGCCTGTGGCGCACCTGCAAGTGGGCTGGAAACATGCAGCTGCTG 461

Db 419

CCGAGCCTGGCATCCGGCCTGTGGCGCACCTGCAAGTGGGCTGGAAACATGCAGCTGCTG 478

QY 462

CCCGGGGCTTGGCGCTCTTGTGAAGTGTGACCTATGTTTGCAGAGGGCAGCGG 521

Db 479

CCCGGGGCTTGGCGCTCTTGTGAAGTGTGACCTATGTTTGCAGAGGGCAGCGG 538

QY 522

TACAGCCACCGGSCAGGAGTGTGCTGCAACGCCACCTGCACCCACTACACAGCAGCTC 581

Db 539

TACAGCCACCGGSCAGGAGTGTGCTGCAACGCCACCTGCACCCACTACACAGCAGCTC 598

QY 582

GTGTGGGCGCACCTCAAGCCAGCTGGGCTGTGGGGGCGCACCTGTCTCTGAGGCGCAGACA 641

Db 599

GTGTGGGCGCACCTCAAGCCAGCTGGGCTGTGGGGGCGCACCTGTCTCTGAGGCGCAGACA 658

QY 642

GGATAGAAGCCCTTGTCTGTGCTTACTCCCGGAGGCAACTGGGAGGTCAACGGGAAG 701

Db 659

GGATAGAAGCCCTTGTCTGTGCTTACTCCCGGAGGCAACTGGGAGGTCAACGGGAAG 718

QY 702

ACAATCATCCCTTATAAGAGGGTGTGCTGTGCTGTGCAACAGCAGGCTGTCTCAGGC 761

Db 719

ACAATCATCCCTTATAAGAGGGTGTGCTGTGCTGTGCAACAGCAGGCTGTCTCAGGC 778

QY 762

TGCTTCAAGCCCTGGGACCATGAGGGGGCTCTGTGAGGTCCCGCAGGAACTCTTGTGCG 821

Db 779

TGCTTCAAGCCCTGGGACCATGAGGGGGCTCTGTGAGGTCCCGCAGGAACTCTTGTGCG 838

QY 822

ATGAGCTGCCAGAACCATGGACGCTCTCAACATCAGCAGCTGCCACTGTGCCCTTCCCT 881

Db 839

ATGAGCTGCCAGAACCATGGACGCTCTCAACATCAGCAGCTGCCACTGTGCCCTTCCCT 898

QY 882

GGCTACACGGGCGAGATCTACTGCCAAGTGAAGTGTGAGCTGTGAGTGTGTGACGGCGGTTTC 941

Db 899

GGCTACACGGGCGAGATCTACTGCCAAGTGAAGTGTGAGTGTGTGAGTGTGTGACGGCGGTTTC 958

QY 942

CGGGAGGAGGAGTGTCTGCTCGCTGTGACATCGGCTACGGGCGGAGCCAGTGTGCCACC 1001

Db 959

CGGGAGGAGGAGTGTCTGCTCGCTGTGACATCGGCTACGGGCGGAGCCAGTGTGCCACC 1018

QY 1002

AAGTGCAATTTTCCCTTCCACACTGTGACCTGAGGATCGACGGAGACTGTTTCATGGTG 1061

Db 1019

AAGTGCAATTTTCCCTTCCACACTGTGACCTGAGGATCGACGGAGACTGTTTCATGGTG 1078

QY 1062

TCTTACAGGSCAGACACCTATTACAGAGCCAGGATGAATGTCAAGAGAAAGCGGGGTG 1121



Db 901 ACCTGTGACCTTCAGGATCGACGGAGACTGCTTCATGGTGTCTTCAGAGGCGACACACCTAT 960  
QY 1083 TACAGAGCCAGGATGAATGTCAGAGAAAGGGGGTGTGGCCCGAGATCAAGAGCCAG 1142  
Db 961 TACAGAGCCAGGATGAATGTCAGAGAAAGGGGGTGTGGCCCGAGATCAAGAGCCAG 1020  
QY 1143 AAGTGCAGGACATCTCGGCTTCTATCTGGGCGGCTGGAGAGCCACCAAGAGGTGACT 1202  
Db 1021 AAGTGCAGGACATCTCGGCTTCTATCTGGGCGGCTGGAGAGCCACCAAGAGGTGATT 1080  
QY 1203 GACAGTGAATTCAGAGCAGGAATCTGTGATGGGCTACCTACAGAGCCGCGCAAGGAC 1262  
Db 1081 GACAGTGAATTCAGAGCAGGAATCTGTGATGGGCTACCTACAGAGCCGCGCAAGGAC 1140  
QY 1263 TCCTTCGGCTGGGCCACAGAGGAGCAGCCAGGCTTACACAGTTTGGCTTTGGGCGAGCT 1322  
Db 1141 TCCTTCGGCTGGGCCACAGAGGAGCAGCCAGGCTTACACAGTTTGGCTTTGGGCGAGCT 1200  
QY 1323 GACAACCCAGGG 1334  
Db 1201 GACAACCCAGGG 1212

RESULT 10  
AAK94246  
ID AAK94246 standard; cDNA; 1786 BP.  
XX  
AC AAK94246;  
XX  
DT 06-NOV-2001 (first entry)  
DE Human full-length cDNA, SEQ ID NO: 2850.  
XX Human; full length cDNA; cDNA synthesis; oligo-capping; ss.  
XX Homo sapiens.  
PN EP1130094-A2.  
XX  
PD 05-SEP-2001.  
XX  
PF 07-JUL-2000; 2000EP-0114089.  
XX  
XX 08-JUL-1999; 99JP-0194486.  
PR 11-JAN-2000; 2000JP-0118774.  
PR 02-MAY-2000; 2000JP-0183765.  
XX  
XX (HELI-) HELIX RES INST.  
XX  
PI Ota T, Nishikawa T, Isogai T, Hayashi K, Ishii S, Kawai Y;  
PI Wakamatsu A, Sugiyama T, Nagai K, Kojima S, Otsuki T, Koga H;  
XX  
DR WPI: 2001-524255/58.  
DR P-PSDB; AAM93326.  
XX  
PT 830 Primers useful for synthesizing full length cDNA clones and their  
PT use in genetic manipulation -  
PT  
XX  
PS Claim 8; SEQ ID NO 2850; 1380pp + sequence listing; English.  
XX  
CC The invention relates to primers for synthesizing full length cDNA  
CC clones. 830 cDNA molecules encoding a human protein have been  
CC isolated and nucleotide sequences of 5' and 3'-ends of the cDNA  
CC molecules have been determined. Primers for synthesizing the full length  
CC cDNA are useful for clarifying the function of the protein encoded by  
CC the cDNA. The full length clones were obtained by construction of full  
CC length enriched cDNA libraries that were synthesised by the oligo-capping  
CC method. The primers enable the production of the full length cDNA easily  
CC without any special methods. The present sequence is a full length  
CC human cDNA of the invention.  
CC  
CC Note: The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in CD-ROM format directly from EPO.  
XX

SQ Sequence 1786 BP; 361 A; 548 C; 553 G; 324 T; 0 other;  
Query Match 41.3%; Score 774; DB 22; Length 1786;  
Best Local Similarity 99.3%; Pred. No. 0;  
Matches 1224; Conservative 0; Mismatches 9; Indels 0; Gaps 0;  
QY 102 COTGACGGGCCCAACAGACCCATGTCATCCAGAGACCTCCCTCGGCGGGSCATCTC 161  
Db 52 COTGACGGGCCCAACAGACCCATGTCATCCAGAGACCTCCCTCGGCGGGSCATCTC 111  
QY 162 CTGGCTGTGCTCTCTGGCCCTCTTGGCACCACTGGGAGAGGTGTGGCCACCCAGCTG 221  
Db 112 CTGGCTGTGCTCTCTGGCCCTCTTGGCACCGCTTGGGAGAGGTGTGGCCACCCAGCTG 171  
QY 222 CAGGAGAGGCTCCGATGCGGCGGAGCCCTGAACAGAGAGAGAGTTCTTGTCTCTCTCC 281  
Db 172 CAGGAGAGGCTCCGATGCGGCGGAGCCCTGAACAGAGAGAGAGTTCTTGTCTCTCTCC 231  
QY 282 CTGCACAAACCCGCTGCGCAGCTGGGTCCAGCCCCCTCGGCTGACATGCGGAGGCTGGAC 341  
Db 232 CTGCACAAACCCGCTGCGCAGCTGGGTCCAGCCCCCTCGGCTGACATGCGGAGGCTGGAC 291  
QY 342 TGGAGTGACAGCTGGCCCAACTGGCTCAAGCCAGGCGACCCCTCTGTGGAATCCCAAC 401  
Db 292 TGGAGTGACAGCTGGCCCAACTGGCTCAAGCCAGGCGACCCCTCTGTGGAATCCCAAC 351  
QY 402 CCGAGCTGGCATCGGCGCTGTGGCGCACCTCAAGTGGGCTGGAACATGAGCTGCTG 461  
Db 352 CCGAGCTGGCATCGGCGCTGTGGCGCACCTCAAGTGGGCTGGAACATGAGCTGCTG 411  
QY 462 CCCGCGGCTTGGCGCTCTTGTGAAGTGGTCAAGCCCTATGTTGAGAGGGGSCAGCG 521  
Db 412 CCCGCGGCTTGGCGCTCTTGTGAAGTGGTCAAGCCCTATGTTGAGAGGGGSCAGCG 471  
QY 522 TACAGCAGCGCGGAGAGGTGTGCTGCAAGCCACCTGACCCACTACAGCAGCTC 581  
Db 472 TACAGCAGCGCGGAGAGGTGTGCTGCAAGCCACCTGACCCACTACAGCAGCTC 531  
QY 582 GTGTGGGCCACCTCAAGCCAGCTGGGCTGTGGGCGCACCTGTCTCGAGGCCACACA 641  
Db 532 GTGTGGGCCACCTCAAGCCAGCTGGGCTGTGGGCGCACCTGTCTCGAGGCCAGGCA 591  
QY 642 GCGATAGAAGCCCTTGTCTGTGCTACTCCCGCGGAGGCAACTGGGAGGTCAACGGGAAG 701  
Db 592 GCGATAGAAGCCCTTGTCTGTGCTACTCCCGCGGAGGCAACTGGGAGGTCAACGGGAAG 651  
QY 702 ACAATCATCCCTATAAGAAGGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 761  
Db 652 ACAATCATCCCTATAAGAAGGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 711  
QY 762 TCGTTCAAAGCCTGGGAGGAGGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 821  
Db 712 TCGTTCAAAGCCTGGGAGGAGGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 771  
QY 822 ATGAGTGTCCAGAACCATGACGCTCAACATCAGCAGCTGCGCACTGCCACTGTGCCCT 881  
Db 772 ATGAGTGTCCAGAACCATGACGCTCAACATCAGCAGCTGCGCACTGCCACTGTGCCCT 831  
QY 882 GGCTACAGGGGAGATGATGCGCAAGTGTGAGGTGTGAGGTGTGAGGTGTGAGGTGTGAGGT 941  
Db 832 GGCTACAGGGGAGATGATGCGCAAGTGTGAGGTGTGAGGTGTGAGGTGTGAGGTGTGAGGT 891  
QY 942 CCGGAGGAGGAGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 1001  
Db 892 CCGGAGGAGGAGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 951  
QY 1002 AAGGTGATTTTCCCTTCCACACTGTGACCTGAGGATGACGAGAGTGTGCTGTGCTGTGCTGTG 1061  
Db 952 AAGGTGATTTTCCCTTCCACACTGTGACCTGAGGATGACGAGAGTGTGCTGTGCTGTGCTGTG 1011  
QY 1062 TCTTCAGAGGCGAGACACCTATTACAGAGCCAGGATGAATGTACAGAGAAAGCGGGGTG 1121  
Db 1012 TCTTCAGAGGCGAGACACCTATTACAGAGCCAGGATGAATGTACAGAGAAAGCGGGGTG 1071



QY 1122 CTGGCCAGATCAAGCCAGAGAAAGTCCAGGACATCTCGCTTCTATCTATCTGGCGCCCTG 1181  
|||||  
Db 1072 CTGGCCAGATCAAGCCAGAGAAAGTCCAGGACATCTCGCTTCTATCTATCTGGCGCCCTG 1131  
|||||  
QY 1182 GAGACCACCAACGAGGTGACTGACAGTACTTCGAGACCAGGAATCTTGGATCGGGCTC 1241  
|||||  
Db 1132 GAGACCACCAACGAGGTGATTGACAGTACTTCGAGACCAGGAATCTTGGATCGGGCTC 1191  
|||||  
QY 1242 ACCTCAAGACCCGCAAGGACTCTTCCGCTGGGCCACAGGGAGCACCAGGCCCTTCACC 1301  
|||||  
Db 1192 ACCTCAAGACCCGCAAGGACTCTTCCGCTGGGCCACAGGGAGCACCAGGCCCTTCACC 1251  
|||||  
QY 1302 AGTTTTCCTTTGGGAGCCTGACAAACAGGG 1334  
|||||  
Db 1252 AGTTTTCCTTTGGGAGCCTGACAAACAGGG 1284  
|||||

## RESULT 11

AA576344  
ID AAS76344 standard; cDNA; 1519 BP.

XX AAS76344;

XX 13-FEB-2002 (first entry)

DE DNA encoding novel human diagnostic protein #12148.

KW Human; chromosome mapping; gene mapping; gene therapy; forensic;  
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.

OS Homo sapiens.

PN WO200175067-A2.

XX 11-OCT-2001.

XX 30-MAR-2001; 2001WO-US08631.

XX 31-MAR-2000; 2000US-0540217.

PR 23-AUG-2000; 2000US-0649167.

XX (HYSE-) HYSEQ INC.

XX Drmanac RT, Liu C, Tang YT;

XX WPI; 2001-639362/73.

DR P-PSDB; ABG12157.

XX New isolated polynucleotide and encoded polypeptides, useful in  
PT diagnostics, forensics, gene mapping, identification of mutations  
PT responsible for genetic disorders or other traits and to assess  
PT biodiversity -

PS Claim 1; SEQ ID No 12148; 103pp; English.

XX The invention relates to isolated polynucleotide (I) and  
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
CC and gene mapping, and in recombinant production of (II). The  
CC polynucleotides are also used in diagnostics as expressed sequence tags  
CC for identifying expressed genes. (I) is useful in gene therapy techniques  
CC to restore normal activity of (II) or to treat disease states involving  
CC (II). (II) is useful for generating antibodies against it, detecting or  
CC quantitating a polypeptide in tissue, as molecular weight markers and as  
CC a food supplement. (II) and its binding partners are useful in medical  
CC imaging of sites expressing (II). (I) and (II) are useful for treating  
CC disorders involving aberrant protein expression or biological activity.  
CC The polypeptide and polynucleotide sequences have applications in  
CC diagnostics, forensics, gene mapping, identification of mutations  
CC responsible for genetic disorders or other traits to assess biodiversity  
CC and to produce other types of data and products dependent on DNA and  
CC amino acid sequences. AA564197-AA594564 represent novel human

CC diagnostic coding sequences of the invention.

CC Note: The sequence data for this patent did not appear in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.

XX Sequence 1519 BP; 297 A; 462 C; 489 G; 271 T; 0 other;

Query Match 30.0%; Score 562; DB 23; Length 1519;

Best Local Similarity 99.6%; Pred No. 3.4e-236;

Matches 712; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 486 GAAGTGTGTCACCCATGCTTTTCAGAGGGGACGGGTACAGCCACGCGGAGAGAGTGT 545

Db 430 GAAGTGTGTCACCCATGCTTTTCAGAGGGGACGGGTACAGCCACGCGGAGAGAGTGT 489

QY 546 GCTCGCAACGCCACCTGACCCACTACAGCAGCTCGTGTGGCCACCTCAAGCCAGCTG 605

Db 490 GCTCGCAACGCCACCTGACCCACTACAGCAGCTCGTGTGGCCACCTCAAGCCAGCTG 549

QY 606 GGCTGTGGGGGACCTGTGCTCTGCAGCCACAGACGCGATAGAAGCCTTTGTGTGTGCC 665

Db 550 GGCTGTGGGGGACCTGTGCTCTGCAGCCACAGCAGCGATAGAAGCCTTTGTGTGTGCC 609

QY 666 TACTTCCCGGAGGCAACTGGGAGGTCAACGGGAAGACAATCATCCCTATAAGAGGGT 725

Db 610 TACTTCCCGGAGGCAACTGGGAGGTCAACGGGAAGACAATCATCCCTATAAGAGGGT 669

QY 726 GCCTGGTGTGCTCTGCAGCCAGCTCTCAGCTGCTTCAAGCCTGGGACCATGCA 785

Db 670 GCCTGGTGTGCTCTGCAGCCAGCTCTCAGCTGCTTCAAGCCTGGGACCATGCA 729

QY 786 GGGGGGCTCTGTGAGTCCCGAGGAATCCTTGTGCGATGAGTGCAGAACCATGGACGT 845

Db 730 GGGGGGCTCTGTGAGTCCCGAGGAATCCTTGTGCGATGAGTGCAGAACCATGGACGT 789

QY 846 CTCAACATCAGCACTGCCACTGTCACCTGTCCTCCCTGCTACACGGGCGAGATAGTCCAA 905

Db 790 CTCAACATCAGCACTGCCACTGTCACCTGTCCTCCCTGCTACACGGGCGAGATAGTCCAA 849

QY 906 GTGAGGTGTCAGCCTGCAGTGTGTCACGGCCGGTTCGGGGAGGAGAGTCTGTCGGTC 965

Db 850 GTGAGGTGTCAGCCTGCAGTGTGTCACGGCCGGTTCGGGGAGGAGAGTCTGTCGGTC 909

QY 966 TGTGACATCGGCTACGGGGAGCCAGTGTGCCACCAAGTGCATTTCCCTTCCACACC 1025

Db 910 TGTGACATCGGCTACGGGGAGCCAGTGTGCCACCAAGTGCATTTCCCTTCCACACC 969

QY 1026 TGTGACCTGAGGATCGAGGAGACTGCTTCATGTTCTTCAGAGGCGACACCTATTAC 1085

Db 970 TGTGACCTGAGGATCGAGGAGACTGCTTCATGTTCTTCAGAGGCGACACCTATTAC 1029

QY 1086 AGAGCCAGGATGAATGTCAGAGGAAGCGGGGTGCTGGCCAGATCAGAGCCAGAAA 1145

Db 1030 AGAGCCAGGATGAATGTCAGAGGAAGCGGGGTGCTGGCCAGATCAGAGCCAGAAA 1089

QY 1146 GTGAGGACATCCTCGCCTTCTATCTGGCCCGCTTGGAGACCAACAGAGTGA 1200

Db 1090 GTGAGGACATCCTCGCCTTCTATCTGGCCCGCTTGGAGACCAACAGAGTGA 1144

RESULT 12

AAA70010

ID AAA70010 standard; cDNA; 690 BP.

XX AAA70010;

AC AAA70010;

XX 07-NOV-2000 (first entry)

DT Human ovarian carcinoma antigen polynucleotide SEQ ID NO:321.

XX Human; ovarian carcinoma; ovarian cancer; therapy; diagnosis;

DE tumour antigen; identification; cytostatic; gene therapy; vaccine; ss.

KW

XX



OS Homo sapiens.  
PN WO200036107-A2.  
XX  
XX 22-JUN-2000.  
XX  
XX 17-DEC-1999; 99WO-US30270.  
XX  
XX 17-DEC-1998; 98US-0215681.  
XX 17-DEC-1998; 98US-0216003.  
XX 23-JUN-1999; 99US-0338933.  
XX 24-SEP-1999; 99US-0404879.  
XX  
XX (CORI-) CORIXA CORP.  
XX  
XX Mitcham JL, King GE, Algate PA, Frudakis TN;  
PI WPI; 2000-431589/37.  
XX  
XX Immunogenic portion of an ovarian carcinoma protein and the nucleic  
PT acid encoding it, useful for the diagnosis, prevention and treatment of  
PT cancer, preferably ovarian cancer -  
XX  
XX Claim 1; Page 177; 299pp; English.  
XX  
XX The present invention describes an isolated polypeptide comprising an  
CC immunogenic portion of an ovarian carcinoma protein (or its variants).  
CC ovarian carcinoma proteins, and polynucleotides encoding them, have  
CC cytostatic activity and can be used in gene therapy and vaccines.  
CC Ovarian carcinoma polypeptides, nucleic acids, antibodies and vaccines  
CC are useful for the prevention, diagnosis and treatment of cancer,  
CC preferably ovarian cancer. AAG69691 to AAA70077 and AAB12552 to AAB12557  
CC represent human ovarian carcinoma polynucleotides and proteins used in  
CC the exemplification of the present invention.  
XX  
SQ Sequence 690 BP; 148 A; 197 C; 212 G; 131 T; 2 other;  
Query Match 25.9%; Score 485; DB 21; Length 690;  
Best Local Similarity 100.0%; Pred. No. 1.9e-202;  
Matches 485; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 604 TGGGCTGTGGGGGACCTGTGCTCTGCAGGCCAGACAGGATAGAGCCCTTTGCTGTG 663  
DB 1 TGGGCTGTGGGGGACCTGTGCTCTGCAGGCCAGACAGGATAGAGCCCTTTGCTGTG 60  
QY 664 CCTACTCCCCGGAGGCAACTGGAGGTCAACGGGAGACAATCATCCCTATAAGAAGG 723  
DB 61 CCTACTCCCCGGAGGCAACTGGAGGTCAACGGGAGACAATCATCCCTATAAGAAGG 120  
QY 724 GTGCTGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 783  
DB 121 GTGCTGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 180  
QY 784 CAGGGGGGCTGTGAGGTCCCGAGGAATCCTTGTCTCATGAGTGCACCAACCATGGAC 843  
DB 181 CAGGGGGGCTGTGAGGTCCCGAGGAATCCTTGTCTCATGAGTGCACCAACCATGGAC 240  
QY 844 GTCTCAACATCAGCACTGCACCTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 903  
DB 241 GTCTCAACATCAGCACTGCACCTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 300  
QY 904 AAGTGAGGTGCAGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 963  
DB 301 AAGTGAGGTGCAGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 360  
QY 964 TCTGTGACATCGGCTAGGGGGAGCCAGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 1023  
DB 361 TCTGTGACATCGGCTAGGGGGAGCCAGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 420  
QY 1024 CTTGTGACCTGAGTATCGAGGAGACTGTCTTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 1083  
DB 421 CTTGTGACCTGAGTATCGAGGAGACTGTCTTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 480

QY 1084 ACAGA 1088  
DB 481 ACAGA 485  
RESULT 13  
ABN72904  
ID ABN72904 standard; DNA; 690 BP.  
XX  
XX AC ABN72904;  
XX  
XX DT 02-JUL-2002 (first entry)  
XX  
XX Ovarian carcinoma antigen polynucleotide #9.  
XX  
XX Human; immunostimulant; cytostatic; cancer; ovarian carcinoma; ds.  
XX  
XX Homo sapiens.  
XX  
XX PN WO200206317-A2.  
XX  
XX PD 24-JAN-2002.  
XX  
XX PF 17-JUL-2001; 2001WO-US22635.  
XX  
XX PR 17-JUL-2000; 2000US-0617747.  
XX PR 10-AUG-2000; 2000US-0636801.  
XX PR 20-SEP-2000; 2000US-0687857.  
XX PR 04-APR-2001; 2001US-0827271.  
XX PR 18-JUN-2001; 2001US-0884441.  
XX  
XX (CORI-) CORIXA CORP.  
XX  
XX Micham JL, King GE, Algate PA, Fling SP, Retter MW, Fanger GR;  
PI Reed SG, Vedvick TS, Carter D, Hill P, Albone E;  
XX WPI; 2002-164781/21.  
XX  
XX Polypeptides comprising an immunogenic portion of an ovarian carcinoma  
PT protein or its variants, useful for stimulating an immune response in a  
PT patient and treating ovarian cancer -  
XX  
XX Example 2; Page 296; 408pp; English.  
XX  
XX This invention relates to polypeptides comprising an immunogenic  
CC portion of an ovarian carcinoma protein which acts as an  
CC immunostimulant and is cytostatic. The polypeptides, polynucleotides,  
CC antibodies, fusion proteins, T cell populations and antigen presenting  
CC cells that express the polypeptides are useful for stimulating an  
CC immune response in a patient and treating ovarian cancer. This  
CC sequence represents DNA related to the invention.  
XX  
SQ Sequence 690 BP; 148 A; 197 C; 212 G; 131 T; 2 other;  
Query Match 25.9%; Score 485; DB 24; Length 690;  
Best Local Similarity 100.0%; Pred. No. 1.9e-202;  
Matches 485; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 604 TGGGCTGTGGGGGACCTGTGCTCTGCAGGCCAGACAGGATAGAGCCCTTTGCTGTG 663  
DB 1 TGGGCTGTGGGGGACCTGTGCTCTGCAGGCCAGACAGGATAGAGCCCTTTGCTGTG 60  
QY 664 CCTACTCCCCGGAGGCAACTGGAGGTCAACGGGAGACAATCATCCCTATAAGAAGG 723  
DB 61 CCTACTCCCCGGAGGCAACTGGAGGTCAACGGGAGACAATCATCCCTATAAGAAGG 120  
QY 724 GTGCTGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 783  
DB 121 GTGCTGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 180  
QY 784 CAGGGGGGCTGTGAGGTCCCGAGGAATCCTTGTCTCATGAGTGCACCAACCATGGAC 843  
DB 181 CAGGGGGGCTGTGAGGTCCCGAGGAATCCTTGTCTCATGAGTGCACCAACCATGGAC 240



XX AAS81209;  
AC  
XX  
DT 13-FEB-2002 (first entry)  
XX  
DE DNA encoding novel human diagnostic protein #17013.  
XX  
XX Human; chromosome mapping; gene mapping; gene therapy; forensic;  
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.  
XX  
OS Homo sapiens.  
XX  
XX WO200175067-A2.  
PN  
XX  
PD 11-OCT-2001.  
XX  
XX 30-MAR-2001; 2001WO-US08631.  
XX  
XX 31-MAR-2000; 2000US-0540217.  
PR 23-AUG-2000; 2000US-0649167.  
XX  
XX (HYSE-) HYSEQ INC.  
PA  
XX Drmanac RT, Liu C, Tang YT;  
PI  
XX  
XX  
DR WPI; 2001-639362/73.  
DR P-PSDB; ABG17022.  
XX  
XX New isolated polynucleotide and encoded polypeptides, useful in  
PT diagnostics, forensics, gene mapping, identification of mutations  
PT responsible for genetic disorders or other traits and to assess  
PT biodiversity -  
XX  
XX Claim 1; SEQ ID No 17013; 103pp; English.  
XX  
XX The invention relates to isolated polynucleotide (I) and  
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
CC and gene mapping, and in recombinant production of (II). The  
CC polynucleotides are also used in diagnostics as expressed sequence tags  
CC for identifying expressed genes. (I) is useful in gene therapy techniques  
CC to restore normal activity of (II) or to treat disease states involving  
CC (II). (II) is useful for generating antibodies against it, detecting or  
CC quantitating a polypeptide in tissue, as molecular weight markers and as  
CC a food supplement. (II) and its binding partners are useful in medical  
CC imaging of sites expressing (II). (I) and (II) are useful for treating  
CC disorders involving aberrant protein expression or biological activity.  
CC The polypeptide and polynucleotide sequences have applications in  
CC diagnostics, forensics, gene mapping, identification of mutations  
CC responsible for genetic disorders or other traits to assess biodiversity  
CC and to produce other types of data and products dependent on DNA and  
CC amino acid sequences. AAS64197-AAS94564 represent novel human  
CC diagnostic coding sequences of the invention.  
CC Note: The sequence data for this patent did not appear in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
XX Sequence 602 BP; 119 A; 186 C; 172 G; 125 T; 0 other;  
XX  
XX Query Match 21.2%; Score 398; DB 23; Length 602;  
XX Best Local Similarity 100.0%; Pred. No. 2.5e-164;  
XX Matches 398; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
QY 709 TCCCTATAGAGGGTGGTCTGCTGCTGACAGCCAGTGTCTAGGCTGCTTCA 768  
DB 478 TCCCTATAGAGGGTGGTCTGCTGCTGACAGCCAGTGTCTAGGCTGCTTCA 419  
QY 769 AAGCTGGGACCATGAGGGGGCTCTGTGAGTGTCCAGGAATCCTGTGCGCATGAGCT 828  
DB 418 AAGCTGGGACCATGAGGGGGCTCTGTGAGTGTCCAGGAATCCTGTGCGCATGAGCT 359  
QY 829 GCCAAGAACCATGAGCTGTCAACATCAGCACTGCCACTGCCACTGTCCCTGGCTACA 888  
|||||

DB 358 GCCAAGAACCATGAGCTGTCAACATCAGCACTGCCACTGTCCCTGGCTACA 299  
QY 889 CGGGCAGATACCTGCCAGTGCAGCTGCAGCTGTGTCAGCGCGGTTCCGGGAGG 948  
DB 298 CGGGCAGATACCTGCCAGTGCAGCTGCAGCTGTGTCAGCGCGGTTCCGGGAGG 239  
QY 949 AGGAGTCTCGTGGTCTGTGACATCGGCTACGGGGAGGCCAGTGTGCCACCAAGTGC 1008  
DB 238 AGGAGTCTCGTGGTCTGTGACATCGGCTACGGGGAGGCCAGTGTGCCACCAAGTGC 179  
QY 1009 ATTTTCCCTTCCACACCTGTGACCTGAGGATCGAGGAGACTGCTTCAATGTGCTTTCAG 1068  
DB 178 ATTTTCCCTTCCACACCTGTGACCTGAGGATCGAGGAGACTGCTTCAATGTGCTTTCAG 119  
QY 1069 AGGAGACACCTATTACAGAGCCAGGATGAATGTTCAG 1106  
DB 118 AGGAGACACCTATTACAGAGCCAGGATGAATGTTCAG 81  
RESULT 16  
AAS91790  
ID AAS91790 standard; cDNA; 1934 BP.  
XX  
XX AAS91790;  
AC  
XX  
XX 13-FEB-2002 (first entry)  
DT  
XX  
XX DNA encoding novel human diagnostic protein #27594.  
DE  
XX Human; chromosome mapping; gene mapping; gene therapy; forensic;  
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.  
XX  
XX Homo sapiens.  
OS  
XX  
XX WO200175067-A2.  
PN  
XX  
XX 11-OCT-2001.  
PD  
XX  
XX 30-MAR-2001; 2001WO-US08631.  
PF  
XX  
XX 31-MAR-2000; 2000US-0540217.  
PR 23-AUG-2000; 2000US-0649167.  
XX  
XX (HYSE-) HYSEQ INC.  
PA  
XX Drmanac RT, Liu C, Tang YT;  
PI  
XX  
XX WPI; 2001-639362/73.  
DR P-PSDB; ABG27603.  
XX  
XX New isolated polynucleotide and encoded polypeptides, useful in  
PT diagnostics, forensics, gene mapping, identification of mutations  
PT responsible for genetic disorders or other traits and to assess  
PT biodiversity -  
XX  
XX Claim 1; SEQ ID No 27594; 103pp; English.  
XX  
XX The invention relates to isolated polynucleotide (I) and  
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
CC and gene mapping, and in recombinant production of (II). The  
CC polynucleotides are also used in diagnostics as expressed sequence tags  
CC for identifying expressed genes. (I) is useful in gene therapy techniques  
CC to restore normal activity of (II) or to treat disease states involving  
CC (II). (II) is useful for generating antibodies against it, detecting or  
CC quantitating a polypeptide in tissue, as molecular weight markers and as  
CC a food supplement. (II) and its binding partners are useful in medical  
CC imaging of sites expressing (II). (I) and (II) are useful for treating  
CC disorders involving aberrant protein expression or biological activity.  
CC The polypeptide and polynucleotide sequences have applications in  
CC diagnostics, forensics, gene mapping, identification of mutations  
CC responsible for genetic disorders or other traits to assess biodiversity  
CC and to produce other types of data and products dependent on DNA and  
CC amino acid sequences. AAS64197-AAS94564 represent novel human  
CC diagnostic coding sequences of the invention.  
CC Note: The sequence data for this patent did not appear in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
XX Sequence 602 BP; 119 A; 186 C; 172 G; 125 T; 0 other;  
XX  
XX Query Match 21.2%; Score 398; DB 23; Length 602;  
XX Best Local Similarity 100.0%; Pred. No. 2.5e-164;  
XX Matches 398; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
QY 709 TCCCTATAGAGGGTGGTCTGCTGCTGACAGCCAGTGTCTAGGCTGCTTCA 768  
DB 478 TCCCTATAGAGGGTGGTCTGCTGCTGACAGCCAGTGTCTAGGCTGCTTCA 419  
QY 769 AAGCTGGGACCATGAGGGGGCTCTGTGAGTGTCCAGGAATCCTGTGCGCATGAGCT 828  
DB 418 AAGCTGGGACCATGAGGGGGCTCTGTGAGTGTCCAGGAATCCTGTGCGCATGAGCT 359  
QY 829 GCCAAGAACCATGAGCTGTCAACATCAGCACTGCCACTGCCACTGTCCCTGGCTACA 888  
|||||

CC amino acid sequences. AAS64197-AAS94564 represent novel human  
CC diagnostic coding sequences of the invention.

CC Note: The sequence data for this patent did not appear in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.

XX

SQ Sequence 1934 BP; 409 A; 577 C; 576 G; 372 T; 0 other;

Query Match 20.7%; Score 388; DB 23; Length 1934;  
Best Local Similarity 98.8%; Pred. No. 5.5e-160;  
Matches 1038; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

|    |     |   |     |
|----|-----|---|-----|
| QY | 17  | CCGAGCTGACTCTGAGATTTGTAATAGCTCATCCAGCTGAGAACAGCCGGGTG       | 76  |
| Db | 75  | CCGAGCTGACTCTGAGATTTGTAATAGCTCATCCAGCTGAGAACAGCCGGGTG       | 134 |
| QY | 77  | GCTGAGCAGGCTGTGACGAGCAGCTGACGGGCCAACAGACCATGCTCATCCAGA      | 136 |
| Db | 135 | GCTGAGCAGGCTGTGACGAGCAGCTGACGGGCCAACAGACCATGCTCATCCAGA      | 194 |
| QY | 137 | GACCTCCCTGGCGGGGGGATCTCTGGCTGTGCTCTGGCCCTCTTGGCACCACCTG     | 196 |
| Db | 195 | GACCTCCCTGGCGGGGGGATCTCTGGCTGTGCTCTGGCCCTCTTGGCACCACCTG     | 254 |
| QY | 197 | GGCAGAGGTGTGCGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCCGAGCCCTGAACAG | 256 |
| Db | 255 | GGCAGAGGTGTGCGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCCGAGCCCTGAACAG | 314 |
| QY | 257 | GAAGAGAGTTTCTTGTCTCTCTCCCTGCACAAACCGCTGCGCAGCTGGTCCAGCCGCC  | 316 |
| Db | 315 | GAAGAGAGTTTCTTGTCTCTCTCCCTGCACAAACCGCTGCGCAGCTGGTCCAGCCGCC  | 374 |
| QY | 317 | TGCGGCTGACATCGGAGGCTGACTGGAGTGACAGCTGCCCCAACTGGCTCAAGCCAG   | 376 |
| Db | 375 | TGCGGCTGACATCGGAGGCTGACTGGAGTGACAGCTGCCCCAACTGGCTCAAGCCAG   | 434 |
| QY | 377 | GGCAGCCCTCTGTGGAATCCAAACCCGAGCTGCGATCCGCGCTGTGGCGCACCTTGA   | 436 |
| Db | 435 | GGCAGCCCTCTGTGGAATCCAAACCCGAGCTGCGATCCGCGCTGTGGCGCACCTTGA   | 494 |
| QY | 437 | AGTGGCTGGAACATCAGCTGTGCTCCCGGGCTTGGCGTCTTGTGAGTGGTCTAG      | 496 |
| Db | 495 | AGTGGCTGGAACATCAGCTGTGCTCCCGGGCTTGGCGTCTTGTGAGTGGTCTAG      | 554 |
| QY | 497 | CTATGTTTGCAGAGGGGAGCGGTACAGCCAGCGCGGAGGAGTGTCTCGCAAGCG      | 556 |
| Db | 555 | CTATGTTTGCAGAGGGGAGCGGTACAGCCAGCGCGGAGGAGTGTCTCGCAAGCG      | 614 |
| QY | 557 | CACCTGCACCCACTACACGAGCTCGTGTGGGCCACCTCAAGCCAGCTGGGCTGTGGCG  | 616 |
| Db | 615 | CACCTGCACCCACTACACGAGCTCGTGTGGGCCACCTCAAGCCAGCTGGGCTGTGGCG  | 674 |
| QY | 617 | GCACCTGTCTCTGAGGCGGACAGGATAGAGCCCTTTGTCTGTCTACTCCCGCG       | 676 |
| Db | 675 | GCACCTGTCTCTGAGGCGGACAGGATAGAGCCCTTTGTCTGTCTACTCCCGCG       | 734 |
| QY | 677 | AGGCAACTGGAGGTCAACGGGAGAACATCATCCCTATAGAGAGGTGCTGGTGTTC     | 736 |
| Db | 735 | AGGCAACTGGAGGTCAACGGGAGAACATCATCCCTATAGAGAGGTGCTGGTGTTC     | 794 |
| QY | 737 | GCTCTGCACAGCAGTGTCTCAGGCTGCTTCAAGAGCTGGGACCATGAGGGGGCTGTG   | 796 |
| Db | 795 | GCTCTGCACAGCAGTGTCTCAGGCTGCTTCAAGAGCTGGGACCATGAGGGGGCTGTG   | 854 |
| QY | 797 | TGAGTCCCGGAGATCTTGTGCGATGAGTGCAGAACCATGGAGCTCTCAACATCAG     | 856 |
| Db | 855 | TGAGTCCCGGAGATCTTGTGCGATGAGTGCAGAACCATGGAGCTCTCAACATCAG     | 914 |
| QY | 857 | CACCTGCCACTGCCACTGTCCCTGGCTACAGGGGAGATCTGCCAAGTGGGTGAG      | 916 |
| Db | 915 | CACCTGCCACTGCCACTGTCCCTGGCTACAGGGGAGATCTGCCAAGTGGGTGAG      | 974 |
| QY | 917 | CCTGCAAGTGTGCAAGCGCGGTTCGCGGAGGAGAGTGTCTGCTGTGACATCGG       | 976 |

|    |      |  |      |
|----|------|--|------|
| Db | 975  | CCTGCAGTGTGTGCACGGCCGTTCCGGGAGGAGGAGTGTCTCGTGTGACATCGG       | 1034 |
| QY | 977  | CTACGGGGAGCCCACTGTGCCACCAAGTGCAATTTTCCCTTCCACACCTGTGACCTGAG  | 1036 |
| Db | 1035 | CTACGGGGAGCCCACTGTGCCACCAATGTGCAATTTTCCCTTCCACACCTGTGACCTGAG | 1094 |
| QY | 1037 | GATCAGCGAGAGTGTCTTCATGTGTCTTCA                               | 1067 |
| Db | 1095 | GATCAGCGAGAGTGTCTTCATGTGTCTTCA                               | 1125 |

RESULT 17  
AAS76343

ID AAS76343 standard; cDNA; 906 BP.

XX AAS76343;

XX 13-FEB-2002 (first entry)

XX DNA encoding novel human diagnostic protein #12147.

XX Human; chromosome mapping; gene mapping; gene therapy; forensic;  
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.

XX Homo sapiens.

XX WO200175067-A2.

XX 11-OCT-2001.

XX 30-MAR-2001; 2001WO-US08631.

XX 31-MAR-2000; 2000US-0540217.

XX 23-AUG-2000; 2000US-0649167.

XX (HYSE-) HYSEQ INC.

XX Drmanac RT, Liu C, Tang YT;

XX WPI; 2001-639362/73.

XX P-PSDB; ABG12156.

XX New isolated polynucleotide and encoded polypeptides, useful in  
PT diagnostics, forensics, gene mapping, identification of mutations  
PT responsible for genetic disorders or other traits and to assess  
PT biodiversity

XX Claim 1; SEQ ID No 12147; 103pp; English.

XX The invention relates to isolated polynucleotide (I) and  
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
CC and gene mapping, and in recombinant production of (II). The  
CC polynucleotides are also used in diagnostics as expressed sequence tags  
CC for identifying expressed genes. (I) is useful in gene therapy techniques  
CC to restore normal activity of (II) or to treat disease states involving  
CC (II). (II) is useful for generating antibodies against it, detecting or  
CC quantitating a polypeptide in tissue, as molecular weight markers and as  
CC a food supplement. (II) and its binding partners are useful in medical  
CC imaging of sites expressing (II). (I) and (II) are useful for treating  
CC disorders involving aberrant protein expression or biological activity.  
CC The polypeptide and polynucleotide sequences have applications in  
CC diagnostics, forensics, gene mapping, identification of mutations  
CC responsible for genetic disorders or other traits to assess biodiversity  
CC and to produce other types of data and products dependent on DNA and  
CC amino acid sequences. AAS64197-AAS94564 represent novel human  
CC diagnostic coding sequences of the invention.

CC Note: The sequence data for this patent did not appear in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.

XX Sequence 906 BP; 175 A; 294 C; 286 G; 151 T; 0 other;

| Query Match                            | 18.6%; Score 348; DB 23; Length 906;                                 |
|--|--|
| Best Local Similarity                  | 99.7%; Pred. No. 1.9e-142;   |
| Matches 398; Conservative              | 0; Mismatches 1; Indels 0; Gaps 0;                                   |
| QY                                     | 14 CAGCCAGCCTGACTCCTCTGAGATTGTGAATAGCTTCCATCCAGCTGAGAAACAGCGG 73     |
| Db                                     |  |
| Db                                     | 18 CAGCCAGCCTGACTCCTCTGAGATTGTGAATAGCTTCCATCCAGCCTGAGAAACAGCGG 77    |
| QY                                     | 74 GTGGCTGAGCCAGGCTGTGCACGAGACACCTGACGGGCCCAACAGACCCATGCTGCATCC 133  |
| Db                                     |  |
| Db                                     | 78 GTGGCTGAGCCAGGCTGTGCACGAGGCGCTGACGGGCCCAACAGACCCATGCTGCATCC 137   |
| QY                                     | 134 AGAGACCTCCCTTGGCGGGGGGATCTCCCTGGCTGTGCTCTCTGGCCCTCTTGGCACCAC 193 |
| Db                                     |  |
| Db                                     | 138 AGAGACCTCCCTTGGCGGGGGGATCTCCCTGGCTGTGCTCTCTGGCCCTCTTGGCACCAC 197 |
| QY                                     | 194 CTGGGCAGAGGTGTGGGCACCCCAAGCTGCAGGAGCAGGCTCCGATGGCGGAGCCCTGAA 253 |
| Db                                     |  |
| Db                                     | 198 CTGGGCAGAGGTGTGGGCACCCCAAGCTGCAGGAGCAGGCTCCGATGGCGGAGCCCTGAA 257 |
| QY                                     | 254 CAGGAAGGAGAGTTTCTTGTCTCTCCCTGCACAAACCGCTGCGCAGCTGGGTCCAGCC 313   |
| Db                                     |  |
| Db                                     | 258 CAGGAAGGAGAGTTTCTTGTCTCTCCCTGCACAAACCGCTGCGCAGCTGGGTCCAGCC 317   |
| QY                                     | 314 CCCTGCGGCTGACATGCGGAGGCTGGACTGAGTGCACAGCCTGCCCCAAGCTGCTCAAGC 373 |
| Db                                     |  |
| Db                                     | 318 CCCTGCGGCTGACATGCGGAGGCTGGACTGAGTGCACAGCCTGCCCCAAGCTGCTCAAGC 377 |
| QY                                     | 374 CAGGGCAGCCCTCTGTGGAATCCCAAGCCCGAGCTGGC 412                       |
| Db                                     |  |
| Db                                     | 378 CAGGGCAGCCCTCTGTGGAATCCCAAGCCCGAGCTGGC 416                       |
| RESULT 18                              |  |
| AAH98469                               |  |
| ID ID AAH98469 standard; cdNA; 517 BP. |  |
| XX                                     | AAH98469;  |
| AC                                     |  |
| XX                                     |  |
| DT                                     |  |
| XX                                     | 12-OCT-2001 (first entry)  |
| XX                                     | Human EST-derived coding sequence SEQ ID NO: 326.                    |
| XX                                     | Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;   |
| KW                                     | tomato; monkey; dog; sea urchin; expressed sequence tag; EST;        |
| KW                                     | diagnostics; forensic test; gene mapping; genetic disorder;          |
| KW                                     | biodiversity; gene therapy; nutrition; ss.                           |
| XX                                     |  |
| OS                                     | Homo sapiens.  |
| XX                                     |  |
| XX                                     | WO200154477-A2.  |
| XX                                     |  |
| PD                                     | 02-AUG-2001.   |
| XX                                     |  |
| PF                                     | 25-JAN-2001; 2001WO-US02687.   |
| XX                                     |  |
| PR                                     | 25-JAN-2000; 2000US-0491404.   |
| PR                                     | 17-JUL-2000; 2000US-0617746.   |
| PR                                     | 03-AUG-2000; 2000US-0631451.   |
| PR                                     | 15-SEP-2000; 2000US-0663870.   |
| XX                                     |  |
| PA                                     | (HYSE-) HYSEQ INC.   |
| XX                                     |  |
| PI                                     | Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;           |
| PI                                     | Cao Y, Drmanac RA, Zhang J, Werhman T;                               |
| XX                                     |  |
| XX                                     | WPI; 2001-476164/51.   |
| DR                                     | P-FSDB; AAM23810.  |
| DR                                     |  |
| XX                                     |  |
| PT                                     | Isolated polypeptide for treatment of diseases, diagnostics, raising |
| PT                                     | antibodies and research use -  |
| XX                                     |  |

PI Wakamatsu A, Sugiyama T, Nagai K, Kojima S, Otsuki T, Koga H;  
XX WPI; 2001-524255/58.  
XX 830 Primers useful for synthesizing full length cDNA clones and their  
PT use in genetic manipulation -  
PT  
XX  
PS Claim 2; SEQ ID NO 290; 1380pp + sequence listing; English.  
XX  
XX The invention relates to primers for synthesizing full length cDNA  
CC clones. 830 cDNA molecules encoding a human protein have been  
CC isolated and nucleotide sequences of 5' and 3'-ends of the cDNA  
CC molecules have been determined. Primers for synthesizing the full  
CC length cDNA are useful for clarifying the function of the protein encoded by  
CC the cDNA. The full length clones were obtained by construction of full  
CC length enriched cDNA libraries that were synthesised by the oligo-capping  
CC method. The primers enable the production of the full length cDNA easily  
CC without any special methods. The present sequence is the nucleotide  
CC sequence of the 5'-end of a cDNA provided in the invention.  
CC Note: The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in CD-ROM format directly from EPO.  
XX  
SQ Sequence 512 BP; 94 A; 166 C; 167 G; 82 T; 3 other;

Query Match 10.7%; Score 201; DB 22; Length 512;  
Best Local Similarity 100.0%; Pred. No. 4.9e-78;  
Matches 201; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 193 CTGGGCGAGAGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCGGAGCCCTGA 252  
DB 144 CTGGGCGAGAGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCGGAGCCCTGA 203  
QY 253 ACAGGAAGGAGAGTTCTTGTCTCTCTCCCTGCACAAACCGCTGCGCAGCTGGGTCCAGC 312  
DB 204 ACAGGAAGGAGAGTTCTTGTCTCTCTCCCTGCACAAACCGCTGCGCAGCTGGGTCCAGC 263  
QY 313 CCCCTGCGGCTGACATGGGAGGCTGGAGTGGAGTGACAGCCTGGCCCAACTGGCTCAAG 372  
DB 264 CCCCTGCGGCTGACATGGGAGGCTGGAGTGGAGTGACAGCCTGGCCCAACTGGCTCAAG 323  
QY 373 CCAGGGCAGCCCTCTGTGGAA 393  
DB 324 CCAGGGCAGCCCTCTGTGGAA 344

RESULT 20  
AAK93233  
ID AAK93233 standard; cDNA; 512 BP.  
XX  
AC AAK93233;  
XX  
DT 06-NOV-2001 (first entry)  
XX  
DE Human cDNA clone representative sequence, SEQ ID NO: 1693.  
XX  
KW Human; full length cDNA; cDNA synthesis; oligo-capping; ss.  
XX  
OS Homo sapiens.  
XX  
PN EP1130094-A2.  
XX  
XX 05-SEP-2001.  
XX  
XX 07-JUL-2000; 2000EP-0114089.  
XX  
XX 08-JUL-1999; 99JP-0194486.  
PR 11-JAN-2000; 2000JP-0118774.  
PR 02-MAY-2000; 2000JP-0183765.  
XX  
XX (HELI-) HELIX RES INST.  
XX  
XX Ota T, Nishikawa T, Isogai T, Hayashi K, Ishii S, Kawal Y;  
PI Wakamatsu A, Sugiyama T, Nagai K, Kojima S, Otsuki T, Koga H;

XX  
DR WPI; 2001-524255/58.  
XX  
PT 830 Primers useful for synthesizing full length cDNA clones and their  
PT use in genetic manipulation -  
XX  
PS Example 11; SEQ ID NO 1693; 1380pp + sequence listing; English.  
XX  
XX The invention relates to primers for synthesizing full length cDNA  
CC clones. 830 cDNA molecules encoding a human protein have been  
CC isolated and nucleotide sequences of 5' and 3'-ends of the cDNA  
CC molecules have been determined. Primers for synthesizing the full  
CC length cDNA are useful for clarifying the function of the protein encoded by  
CC the cDNA. The full length clones were obtained by construction of full  
CC length enriched cDNA libraries that were synthesised by the oligo-capping  
CC method. The primers enable the production of the full length cDNA easily  
CC without any special methods. The present sequence was used as the  
CC representative sequence from a human clone which was used in  
CC homology searches to identify the clone.  
CC Note: The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in CD-ROM format directly from EPO.  
XX  
SQ Sequence 512 BP; 94 A; 166 C; 167 G; 82 T; 3 other;

Query Match 10.7%; Score 201; DB 22; Length 512;  
Best Local Similarity 100.0%; Pred. No. 4.9e-78;  
Matches 201; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 193 CTGGGCGAGAGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCGGAGCCCTGA 252  
DB 144 CTGGGCGAGAGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGGCGGAGCCCTGA 203  
QY 253 ACAGGAAGGAGAGTTCTTGTCTCTCTCCCTGCACAAACCGCTGCGCAGCTGGGTCCAGC 312  
DB 204 ACAGGAAGGAGAGTTCTTGTCTCTCTCCCTGCACAAACCGCTGCGCAGCTGGGTCCAGC 263  
QY 313 CCCCTGCGGCTGACATGGGAGGCTGGAGTGGAGTGACAGCCTGGCCCAACTGGCTCAAG 372  
DB 264 CCCCTGCGGCTGACATGGGAGGCTGGAGTGGAGTGACAGCCTGGCCCAACTGGCTCAAG 323  
QY 373 CCAGGGCAGCCCTCTGTGGAA 393  
DB 324 CCAGGGCAGCCCTCTGTGGAA 344

RESULT 21  
AAS81210  
ID AAS81210 standard; cDNA; 1482 BP.  
XX  
AC AAS81210;  
XX  
DT 13-FEB-2002 (first entry)  
XX  
DE DNA encoding novel human diagnostic protein #17014.  
XX  
KW Human; chromosome mapping; gene mapping; gene therapy; forensic;  
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.  
XX  
XX Homo sapiens.  
XX  
XX WO200175067-A2.  
XX  
XX 11-OCT-2001.  
PD  
XX 30-MAR-2001; 2001WO-US08631.  
XX  
XX 31-MAR-2000; 2000US-0540217.  
PR 23-AUG-2000; 2000US-0649167.  
XX  
XX (HYSE-) HYSEQ INC.  
XX  
XX Drmanac RT, Liu C, Tang YT;

DR WPI: 2001-639362/73.  
XX P-PSDB; ABG17023.  
XX  
PT New isolated polynucleotide and encoded polypeptides, useful in  
PT diagnostics, forensics, gene mapping, identification of mutations  
PT responsible for genetic disorders or other traits and to assess  
PT biodiversity -  
XX  
XX  
PS Claim 1; SEQ ID No 17014; 103pp; English.  
PS  
XX  
CC The invention relates to isolated polynucleotide (I) and  
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
CC and gene mapping, and in recombinant production of (II). The  
CC polynucleotides are also used in diagnostics as expressed sequence tags  
CC for identifying expressed genes. (I) is useful in gene therapy techniques  
CC to restore normal activity of (II) or to treat disease states involving  
CC disorders involving aberrant protein expression or biological activity.  
CC The polypeptide and polynucleotide sequences have applications in  
CC diagnostics, forensics, gene mapping, identification of mutations  
CC responsible for genetic disorders or other traits to assess biodiversity  
CC and to produce other types of data and products dependent on DNA and  
CC amino acid sequences. AAS64197-AAS94564 represent novel human  
CC diagnostic coding sequences of the invention.  
CC Note: The sequence data for this patent did not appear in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
SQ Sequence 1482 BP; 395 A; 360 C; 431 G; 296 T; 0 other;  
Query Match 6.5%; Score 122; DB 23; Length 1482;  
Best Local Similarity 100.0%; Pred. No. 1.9e-43;  
Matches 122; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 677 AGGCACTGGGAGGTCAACGGGAAGACAATCATCCCTATAGAAGGCTGCTGTGTC 736  
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||  
DB 384 AGGCACTGGGAGGTCAACGGGAAGACAATCATCCCTATAGAAGGCTGCTGTGTC 443  
QY 737 GCTCTGCACAGCAGTCTCAGGCTGCTTCAAGCCTGGGACCATGCAGGGGGCTCTG 796  
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||  
DB 444 GCTCTGCACAGCAGTCTCAGGCTGCTTCAAGCCTGGGACCATGCAGGGGGCTCTG 503  
QY 797 TG 798  
DB ||  
DB 504 TG 505  
RESULT 22  
AAS88505  
ID AAS88505 standard; cDNA; 3660 BP.  
XX  
AC AAS88505;  
XX  
DT 13-FEB-2002 (first entry)  
XX  
DE DNA encoding novel human diagnostic protein #24309.  
XX  
KW Human; chromosome mapping; gene mapping; gene therapy; forensic;  
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200175067-A2.  
XX  
PD 11-OCT-2001.  
XX  
PF 30-MAR-2001; 2001WO-US08631.  
XX  
PR 31-MAR-2000; 2000US-0540217.

PR 23-AUG-2000; 2000US-0649167.  
XX  
PA (HYSE-) HYSEQ INC.  
XX  
PI Drmanac RT, Liu C, Tang YT;  
XX  
XX WPI: 2001-639362/73.  
DR P-PSDB; ABG24318.  
XX  
XX New isolated polynucleotide and encoded polypeptides, useful in  
PT diagnostics, forensics, gene mapping, identification of mutations  
PT responsible for genetic disorders or other traits and to assess  
PT biodiversity -  
XX  
PS Claim 1; SEQ ID No 24309; 103pp; English.  
PS  
XX  
CC The invention relates to isolated polynucleotide (I) and  
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
CC and gene mapping, and in recombinant production of (II). The  
CC polynucleotides are also used in diagnostics as expressed sequence tags  
CC for identifying expressed genes. (I) is useful in gene therapy techniques  
CC to restore normal activity of (II) or to treat disease states involving  
CC disorders involving aberrant protein expression or biological activity.  
CC The polypeptide and polynucleotide sequences have applications in  
CC diagnostics, forensics, gene mapping, identification of mutations  
CC responsible for genetic disorders or other traits to assess biodiversity  
CC and to produce other types of data and products dependent on DNA and  
CC amino acid sequences. AAS64197-AAS94564 represent novel human  
CC diagnostic coding sequences of the invention.  
CC Note: The sequence data for this patent did not appear in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
SQ Sequence 3660 BP; 901 A; 903 C; 1053 G; 803 T; 0 other;  
Query Match 5.3%; Score 99; DB 23; Length 3660;  
Best Local Similarity 100.0%; Pred. No. 2.1e-33;  
Matches 99; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1236 GGGCTACCTACAGACCGCCAGGACTCTTCGCTGGGCCACAGGGGACACAGGCC 1295  
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||  
DB 2935 GGGCTACCTACAGACCGCCAGGACTCTTCGCTGGGCCACAGGGGACACAGGCC 2994  
QY 1296 TTCACAGTTTTCCTTTGGGCGAGCTGACAAACACCGG 1334  
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||  
DB 2995 TTCACAGTTTTCCTTTGGGCGAGCTGACAAACACCGG 3033  
RESULT 23  
AAS89242  
ID AAS89242 standard; cDNA; 3660 BP.  
XX  
AC AAS89242;  
XX  
DT 13-FEB-2002 (first entry)  
XX  
DE DNA encoding novel human diagnostic protein #25046.  
XX  
KW Human; chromosome mapping; gene mapping; gene therapy; forensic;  
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200175067-A2.  
XX  
PD 11-OCT-2001.  
XX  
PF 30-MAR-2001; 2001WO-US08631.  
XX  
PR

XX 31-MAR-2000; 2000US-0540217.  
PR 23-AUG-2000; 2000US-0649167.  
XX (HYSE-) HYSEQ INC.  
XX Drmanac RT, Liu C, Tang YT;  
XX WPI; 2001-639362/73.  
DR P-PSDB; ABG25055.

XX New isolated polynucleotide and encoded polypeptides, useful in  
PT diagnostics, forensics, gene mapping, identification of mutations  
PT responsible for genetic disorders or other traits and to assess  
PT biodiversity -  
XX Claim 1: SEQ ID No 25046; 103pp; English.

XX The invention relates to isolated polynucleotide (I) and  
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
CC and gene mapping, and in recombinant production of (II). The  
CC polynucleotides are also used in diagnostics as expressed sequence tags  
CC for identifying expressed genes. (I) is useful in gene therapy techniques  
CC to restore normal activity of (II) or to treat disease states involving  
CC (II). (II) is useful for generating antibodies against it, detecting or  
CC quantitating a polypeptide in tissue, as molecular weight markers and as  
CC a food supplement. (II) and its binding partners are useful in medical  
CC imaging of sites expressing (II). (I) and (II) are useful for treating  
CC disorders involving aberrant protein expression or biological activity.  
CC The polypeptide and polynucleotide sequences have applications in  
CC diagnostics, forensics, gene mapping, identification of mutations  
CC responsible for genetic disorders or other traits to assess biodiversity  
CC and to produce other types of data and products dependent on DNA and  
CC amino acid sequences. AAS64197-AAS94564 represent novel human  
CC diagnostic coding sequences of the invention.

CC Note: The sequence data for this patent did not appear in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.

XX Sequence 3660 BP; 901 A; 903 C; 1053 G; 803 T; 0 other;

Query Match 5.3%; Score 99; DB 23; Length 3660;  
Best Local Similarity 100.0%; Pred. No. 2.1e-33;  
Matches 99; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1236 GGCTACCTACAGACCGCCAGGACTCCCTCCGCTGGGCCACAGGAGCACCAGGCC 1295  
|||||  
DB 2935 GGCTACCTACAGACCGCCAGGACTCCCTCCGCTGGGCCACAGGAGCACCAGGCC 2994

QY 1296 TTCACCAAGTTTGGCTTTGGCAGCCTTGACAAACACGGG 1334  
|||||  
DB 2995 TTCACCAAGTTTGGCTTTGGCAGCCTTGACAAACACGGG 3033

RESULT 24  
AAS81207/c  
ID AAS81207 standard; cDNA; 480 BP.

XX AAS81207;

XX 13-FEB-2002 (first entry)

XX DNA encoding novel human diagnostic protein #17011.

XX Human; chromosome mapping; gene mapping; gene therapy; forensic;  
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.

XX Homo sapiens.

XX WO200175067-A2.

XX 11-OCT-2001.

XX 30-MAR-2001; 2001WO-US08631.  
XX 31-MAR-2000; 2000US-0540217.  
PR 23-AUG-2000; 2000US-0649167.  
XX (HYSE-) HYSEQ INC.  
XX Drmanac RT, Liu C, Tang YT;  
XX WPI; 2001-639362/73.  
DR P-PSDB; ABG17020.

XX New isolated polynucleotide and encoded polypeptides, useful in  
PT diagnostics, forensics, gene mapping, identification of mutations  
PT responsible for genetic disorders or other traits and to assess  
PT biodiversity -  
XX Claim 1: SEQ ID No 17011; 103pp; English.

XX The invention relates to isolated polynucleotide (I) and  
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
CC and gene mapping, and in recombinant production of (II). The  
CC polynucleotides are also used in diagnostics as expressed sequence tags  
CC for identifying expressed genes. (I) is useful in gene therapy techniques  
CC to restore normal activity of (II) or to treat disease states involving  
CC (II). (II) is useful for generating antibodies against it, detecting or  
CC quantitating a polypeptide in tissue, as molecular weight markers and as  
CC a food supplement. (II) and its binding partners are useful in medical  
CC imaging of sites expressing (II). (I) and (II) are useful for treating  
CC disorders involving aberrant protein expression or biological activity.  
CC The polypeptide and polynucleotide sequences have applications in  
CC diagnostics, forensics, gene mapping, identification of mutations  
CC responsible for genetic disorders or other traits to assess biodiversity  
CC and to produce other types of data and products dependent on DNA and  
CC amino acid sequences. AAS64197-AAS94564 represent novel human  
CC diagnostic coding sequences of the invention.

CC Note: The sequence data for this patent did not appear in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.

XX Sequence 480 BP; 110 A; 135 C; 105 G; 130 T; 0 other;

Query Match 5.2%; Score 97; DB 23; Length 480;  
Best Local Similarity 100.0%; Pred. No. 1.8e-32;  
Matches 97; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1104 CAGAGGAAGCGGGTGTCTGGCCAGATCAAGAGCCAGAAAGTCAGGACATCTCGCC 1163  
|||||  
DB 252 CAGAGGAAGCGGGTGTCTGGCCAGATCAAGAGCCAGAAAGTCAGGACATCTCGCC 193

QY 1164 TTCTATCTGGCGCGCTGGAGACCAACACGAGGTGA 1200  
|||||  
DB 192 TTCTATCTGGCGCGCTGGAGACCAACACGAGGTGA 156

RESULT 25  
AAS91789  
ID AAS91789 standard; cDNA; 168 BP.

XX AAS91789;

XX 13-FEB-2002 (first entry)

XX DNA encoding novel human diagnostic protein #27593.

XX Human; chromosome mapping; gene mapping; gene therapy; forensic;  
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.

XX Homo sapiens.

XX WO200175067-A2.



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XX PD 11-OCT-2001.
XX PF 30-MAR-2001; 2001WO-US08631.
XX PR 31-MAR-2000; 2000US-0540217.
XX PR 23-AUG-2000; 2000US-0649167.
XX PA (HYSE-) HYSEQ INC.
XX PI Drmanac RT, Liu C, Tang YT;
XX DR WPI: 2001-639362/73.
XX DR P-PSDB; ABG27602.
XX PT New isolated polynucleotide and encoded polypeptides, useful in
XX PT diagnostics, forensics, gene mapping, identification of mutations
XX PT responsible for genetic disorders or other traits and to assess
XX PT biodiversity.
XX PS Claim 1; SEQ ID No 27593; 103pp; English.
XX CC The invention relates to isolated polynucleotide (I) and
XX CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
XX CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
XX CC and gene mapping, and in recombinant production of (II). The
XX CC polynucleotides are also used in diagnostics as expressed sequence tags
XX CC for identifying expressed genes. (I) is useful in gene therapy techniques
XX CC to restore normal activity of (II) or to treat disease states involving
XX CC quantitating a polypeptide in tissue, as molecular weight markers and as
XX CC a food supplement. (II) and its binding partners are useful in medical
XX CC imaging of sites expressing (II). (I) and (II) are useful for treating
XX CC disorders involving aberrant protein expression or biological activity.
XX CC The polypeptide and polynucleotide sequences have applications in
XX CC diagnostics, forensics, gene mapping, identification of mutations
XX CC responsible for genetic disorders or other traits to assess biodiversity
XX CC and to produce other types of data and products dependent on DNA and
XX CC amino acid sequences. AAS64197-AAS94564 represent novel human
XX CC diagnostic coding sequences of the invention.
XX CC Note: The sequence data for this patent did not appear in the printed
XX CC specification, but was obtained in electronic format directly from WIPO
XX CC at ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 168 BP; 41 A; 45 C; 56 G; 26 T; 0 other;

Query Match 5.0%; Score 94; DB 23; Length 168;
Best Local Similarity 100.0%; Pred. No. 3.9e-31;
Matches 94; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1107 AGGAAAGCGGGGTGCTGGCCAGATCAAGAGCCAGAAAGTCAGGACATCCTCGCCTTC 1166
Db 1 AGGAAAGCGGGGTGCTGGCCAGATCAAGAGCCAGAAAGTCAGGACATCCTCGCCTTC 60
Qy 1167 TATCTGGGCGCGCTGGAGACACCAACAGAGGTGA 1200
Db 61 TATCTGGGCGCGCTGGAGACACCAACAGAGGTGA 94

RESULT 26
AAS73137
ID AAS73137 standard; cDNA; 1239 BP.
XX AC AAS73137;
XX DT 13-FEB-2002 (first entry)
XX DE DNA encoding novel human diagnostic protein #8941.
XX DE Human; chromosome mapping; gene mapping; gene therapy; forensic;
XX KW food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX KW Homo sapiens.

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XX PN WO200175067-A2.
XX PD 11-OCT-2001.
XX PF 30-MAR-2001; 2001WO-US08631.
XX PR 31-MAR-2000; 2000US-0540217.
XX PR 23-AUG-2000; 2000US-0649167.
XX PA (HYSE-) HYSEQ INC.
XX PI Drmanac RT, Liu C, Tang YT;
XX DR WPI: 2001-639362/73.
XX DR P-PSDB; ABG08950.
XX PT New isolated polynucleotide and encoded polypeptides, useful in
XX PT diagnostics, forensics, gene mapping, identification of mutations
XX PT responsible for genetic disorders or other traits and to assess
XX PT biodiversity.
XX PS Claim 1; SEQ ID No 8941; 103pp; English.
XX CC The invention relates to isolated polynucleotide (I) and
XX CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
XX CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
XX CC and gene mapping, and in recombinant production of (II). The
XX CC polynucleotides are also used in diagnostics as expressed sequence tags
XX CC for identifying expressed genes. (I) is useful in gene therapy techniques
XX CC to restore normal activity of (II) or to treat disease states involving
XX CC quantitating a polypeptide in tissue, as molecular weight markers and as
XX CC a food supplement. (II) and its binding partners are useful in medical
XX CC imaging of sites expressing (II). (I) and (II) are useful for treating
XX CC disorders involving aberrant protein expression or biological activity.
XX CC The polypeptide and polynucleotide sequences have applications in
XX CC diagnostics, forensics, gene mapping, identification of mutations
XX CC responsible for genetic disorders or other traits to assess biodiversity
XX CC and to produce other types of data and products dependent on DNA and
XX CC amino acid sequences. AAS64197-AAS94564 represent novel human
XX CC diagnostic coding sequences of the invention.
XX CC Note: The sequence data for this patent did not appear in the printed
XX CC specification, but was obtained in electronic format directly from WIPO
XX CC at ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 1239 BP; 281 A; 298 C; 360 G; 300 T; 0 other;

Query Match 5.0%; Score 94; DB 23; Length 1239;
Best Local Similarity 100.0%; Pred. No. 3.5e-31;
Matches 94; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1360 GGTTTGGCAACGCGTGGAGCTGCAGGCTTCAGCTCCCTCAACTGGAACGACGCGCT 1419
Db 536 GGTTTGGCAACGCGTGGAGCTGCAGGCTTCAGCTCCCTCAACTGGAACGACGCGCT 595
Qy 1420 GCAAAACCCGAAACCGTTACATCTGCCAGTTTGC 1453
Db 596 GCAAAACCCGAAACCGTTACATCTGCCAGTTTGC 629

RESULT 27
AAS76345
ID AAS76345 standard; cDNA; 792 BP.
XX AC AAS76345;
XX DT 13-FEB-2002 (first entry)
XX DE DNA encoding novel human diagnostic protein #12149.
XX DE Human; chromosome mapping; gene mapping; gene therapy; forensic;
XX KW food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX KW Homo sapiens.

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```
XX OS Homo sapiens.
XX PN WO200175067-A2.
XX PD 11-OCT-2001.
XX PF 30-MAR-2001; 2001WO-US08631.
XX PR 31-MAR-2000; 2000US-0540217.
XX PR 23-AUG-2000; 2000US-0649167.
XX PA (HYSE-) HYSEQ INC.
XX PI Drmanac RT, Liu C, Tang YT;
XX PI WPI: 2001-639362/73.
XX DR P-PSDB; ABG12158.
XX PT New isolated polynucleotide and encoded polypeptides, useful in
XX PT diagnostics, forensics, gene mapping, identification of mutations
XX PT responsible for genetic disorders or other traits and to assess
XX PT biodiversity -
XX PS Claim 1; SEQ ID No 12149; 103pp; English.
XX CC The invention relates to isolated polynucleotide (I) and
XX CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
XX CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
XX CC and gene mapping, and in recombinant production of (II). The
XX CC polynucleotides are also used in diagnostics as expressed sequence tags
XX CC for identifying expressed genes. (I) is useful in gene therapy techniques
XX CC to restore normal activity of (II) or to treat disease states involving
XX CC (II). (II) is useful for generating antibodies against it, detecting or
XX CC quantitating a polypeptide in tissue, as molecular weight markers and as
XX CC a food supplement. (II) and its binding partners are useful in medical
XX CC imaging of sites expressing (II). (I) and (II) are useful for treating
XX CC disorders involving aberrant protein expression or biological activity.
XX CC The polypeptide and polynucleotide sequences have applications in
XX CC diagnostics, forensics, gene mapping, identification of mutations
XX CC responsible for genetic disorders or other traits to assess biodiversity
XX CC and to produce other types of data and products dependent on DNA and
XX CC amino acid sequences. AAS64197-AAS94564 represent novel human
XX CC diagnostic coding sequences of the invention.
XX CC Note: The sequence data for this patent did not appear in the printed
XX CC specification, but was obtained in electronic format directly from WIPO
XX CC at ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 792 BP; 176 A; 226 C; 239 G; 151 T; 0 other;

Query Match 4.6%; Score 86; DB 23; Length 792;
Best Local Similarity 100.0%; Pred. No. 1.1e-27;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 414 TCGGGCTGTGGCGCACCTGCAAGTGGCTGGACATGCAGCTGCTCCCGCGGGCTTG 473
DB 235 TCGGGCTGTGGCGCACCTGCAAGTGGCTGGACATGCAGCTGCTCCCGCGGGCTTG 294
QY 474 GCGTCTCTTTGTTGAAGTGGTCAGCCT 499
DB 295 GCGTCTCTTTGTTGAAGTGGTCAGCCT 320

RESULT 28
AAS88505/c
ID AAS88505 standard; cDNA; 3660 BP.
XX AC AAS88505;
XX DT 13-FEB-2002 (first entry)
XX DE DNA encoding novel human diagnostic protein #24309.
XX XX
```

```
Human; chromosome mapping; gene mapping; gene therapy; forensic;
food supplement; medical imaging; diagnostic; genetic disorder; ss.
Homo sapiens.
WO200175067-A2.
11-OCT-2001.
30-MAR-2001; 2001WO-US08631.
31-MAR-2000; 2000US-0540217.
23-AUG-2000; 2000US-0649167.
(HYSE-) HYSEQ INC.
Drmanac RT, Liu C, Tang YT;
WPI: 2001-639362/73.
P-PSDB; ABG24318.
New isolated polynucleotide and encoded polypeptides, useful in
diagnostics, forensics, gene mapping, identification of mutations
responsible for genetic disorders or other traits and to assess
biodiversity -
Claim 1; SEQ ID No 24309; 103pp; English.
The invention relates to isolated polynucleotide (I) and
polypeptide (II) sequences. (I) is useful as hybridisation probes,
polymerase chain reaction (PCR) primers, oligomers, and for chromosome
and gene mapping, and in recombinant production of (II). The
polynucleotides are also used in diagnostics as expressed sequence tags
for identifying expressed genes. (I) is useful in gene therapy techniques
to restore normal activity of (II) or to treat disease states involving
(II). (II) is useful for generating antibodies against it, detecting or
quantitating a polypeptide in tissue, as molecular weight markers and as
a food supplement. (II) and its binding partners are useful in medical
imaging of sites expressing (II). (I) and (II) are useful for treating
disorders involving aberrant protein expression or biological activity.
The polypeptide and polynucleotide sequences have applications in
diagnostics, forensics, gene mapping, identification of mutations
responsible for genetic disorders or other traits to assess biodiversity
and to produce other types of data and products dependent on DNA and
amino acid sequences. AAS64197-AAS94564 represent novel human
diagnostic coding sequences of the invention.
Note: The sequence data for this patent did not appear in the printed
specification, but was obtained in electronic format directly from WIPO
at ftp.wipo.int/pub/published_pct_sequences.
SQ Sequence 3660 BP; 901 A; 903 C; 1053 G; 803 T; 0 other;

Query Match 4.2%; Score 79; DB 23; Length 3660;
Best Local Similarity 99.2%; Pred. No. 1.2e-24;
Matches 129; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 430 CCCTGCAAGTGGCTGGAAACATGCAGCTGCTCCCGCGGGCTTGCGTCTCTTTGTAAG 489
DB 211 CCCTGCAAGTGGCTGGAAACATGCAGCTGCTCCCGCGGGCTTGCGTCTCTTTGTAAG 152
QY 490 TGGTCAGCCCTATGTTTGCAGAGGGGCGAGCGGTACAGCCACGCGGAGAGTGTCTC 549
DB 151 TGGTCAGCCCTGTTGTTTGCAGAGGGGCGAGCGGTACAGCCACGCGGAGAGTGTCTC 92
QY 550 GCAACGCCAC 559
DB 91 GCAACGCCAC 82

RESULT 29
AAS89242/c
ID AAS89242 standard; cDNA; 3660 BP.
XX XX
```

AC AAS89242;  
XX  
XX  
XX 13-FEB-2002 (first entry)  
XX  
XX DNA encoding novel human diagnostic protein #25046.  
XX  
XX Human; chromosome mapping; gene mapping; gene therapy; forensic;  
XX food supplement; medical imaging; diagnostic; genetic disorder; ss.  
XX  
XX Homo sapiens.  
XX  
XX WO200175067-A2.  
XX 11-OCT-2001.  
XX  
XX 30-MAR-2001; 2001WO-US08631.  
XX  
XX 31-MAR-2000; 2000US-0540217.  
XX 23-AUG-2000; 2000US-0649167.  
XX  
XX (HYSE-) HYSEQ INC.  
XX  
XX Drmanac RT, Liu C, Tang YT;  
XX  
XX WPI: 2001-639362/73.  
XX P-PSDB: ABG25055.  
XX  
XX New isolated polynucleotide and encoded polypeptides, useful in  
XX diagnostics, forensics, gene mapping, identification of mutations  
XX responsible for genetic disorders or other traits and to assess  
XX biodiversity -  
XX  
XX Claim 1; SEQ ID No 25046; 103pp; English.  
XX  
XX The invention relates to isolated polynucleotide (I) and  
XX polypeptide (II) sequences. (I) is useful as hybridisation probes,  
XX polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
XX and gene mapping, and in recombinant production of (II). The  
XX polynucleotides are also used in diagnostics as expressed sequence tags  
XX for identifying expressed genes. (I) is useful in gene therapy techniques  
XX to restore normal activity of (II) or to treat disease states involving  
XX (II). (II) is useful for generating antibodies against it, detecting or  
XX quantitating a polypeptide in tissue, as molecular weight markers and as  
XX a food supplement. (II) and its binding partners are useful in medical  
XX imaging of sites expressing (II). (I) and (II) are useful for treating  
XX disorders involving aberrant protein expression or biological activity.  
XX The polypeptide and polynucleotide sequences have applications in  
XX diagnostics, forensics, gene mapping, identification of mutations  
XX responsible for genetic disorders or other traits to assess biodiversity  
XX and to produce other types of data and products dependent on DNA and  
XX amino acid sequences. AAS64197-AAS94564 represent novel human  
XX diagnostic coding sequences of the invention.  
XX Note: the sequence data for this patent did not appear in the printed  
XX specification, but was obtained in electronic format directly from WIPO  
XX at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
XX Sequence 3660 BP; 901 A; 903 C; 1053 G; 803 T; 0 other;  
XX  
XX Query Match 4.2%; Score 79; DB 23; Length 3660;  
XX Best Local Similarity 99.2%; Pred. No. 1.2e-24;  
XX Matches 129; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
XX  
QY 430 CCTGCAAGTGGGCTGGAACATGCAGTGTGCGCGGGGTTGGCGTTCCTTTGTGAAG 489  
DB 211 CCTGCAAGTGGGCTGGAACATGCAGTGTGCGCGGGGTTGGCGTTCCTTTGTGAAG 152  
QY 490 TGGTCAGCCTTATGTTTGCAGAGGGGCGGTTACAGCCAGCGGCGAGAGGTGTC 549  
DB 151 TGGTCAGCCTTATGTTTGCAGAGGGGCGGTTACAGCCAGCGGCGAGAGGTGTC 92  
QY 550 GCAACGCCAC 559  
DB 91 GCAACGCCAC 82

RESULT 30  
AAS81206  
ID AAS81206 standard; cDNA; 915 BP.  
XX  
XX AAS81206;  
XX  
XX 13-FEB-2002 (first entry)  
XX  
XX DNA encoding novel human diagnostic protein #17010.  
XX  
XX Human; chromosome mapping; gene mapping; gene therapy; forensic;  
XX food supplement; medical imaging; diagnostic; genetic disorder; ss.  
XX  
XX Homo sapiens.  
XX  
XX WO200175067-A2.  
XX 11-OCT-2001.  
XX  
XX 30-MAR-2001; 2001WO-US08631.  
XX  
XX 31-MAR-2000; 2000US-0540217.  
XX 23-AUG-2000; 2000US-0649167.  
XX  
XX (HYSE-) HYSEQ INC.  
XX  
XX Drmanac RT, Liu C, Tang YT;  
XX  
XX WPI: 2001-639362/73.  
XX P-PSDB: ABG17019.  
XX  
XX New isolated polynucleotide and encoded polypeptides, useful in  
XX diagnostics, forensics, gene mapping, identification of mutations  
XX responsible for genetic disorders or other traits and to assess  
XX biodiversity -  
XX  
XX Claim 1; SEQ ID No 17010; 103pp; English.  
XX  
XX The invention relates to isolated polynucleotide (I) and  
XX polypeptide (II) sequences. (I) is useful as hybridisation probes,  
XX polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
XX and gene mapping, and in recombinant production of (II). The  
XX polynucleotides are also used in diagnostics as expressed sequence tags  
XX for identifying expressed genes. (I) is useful in gene therapy techniques  
XX to restore normal activity of (II) or to treat disease states involving  
XX (II). (II) is useful for generating antibodies against it, detecting or  
XX quantitating a polypeptide in tissue, as molecular weight markers and as  
XX a food supplement. (II) and its binding partners are useful in medical  
XX imaging of sites expressing (II). (I) and (II) are useful for treating  
XX disorders involving aberrant protein expression or biological activity.  
XX The polypeptide and polynucleotide sequences have applications in  
XX diagnostics, forensics, gene mapping, identification of mutations  
XX responsible for genetic disorders or other traits to assess biodiversity  
XX and to produce other types of data and products dependent on DNA and  
XX amino acid sequences. AAS64197-AAS94564 represent novel human  
XX diagnostic coding sequences of the invention.  
XX Note: The sequence data for this patent did not appear in the printed  
XX specification, but was obtained in electronic format directly from WIPO  
XX at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
XX Sequence 915 BP; 212 A; 244 C; 264 G; 195 T; 0 other;  
XX  
XX Query Match 3.8%; Score 72; DB 23; Length 915;  
XX Best Local Similarity 100.0%; Pred. No. 1.5e-21;  
XX Matches 72; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
QY 1260 GACTCCTTCCTGGCCACAGGGGAGCACCAGGCGCTTACACGTTTTCCTTTGGGCGAG 1319  
DB 118 GACTCCTTCCTGGCCACAGGGGAGCACCAGGCGCTTTCCTTTGGGCGAG 177  
QY 1320 CCTGACACAC 1331

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Db 178 CCTGACACCAC 189
|||||
RESULT 31
AAX80091
ID AAX80091 standard; DNA; 45 BP.
XX
AC AAX80091;
XX
DT 12-AUG-1999 (first entry)
XX
DE Human PRO347 probe.
XX
KW Human; PRO protein; tumour necrosis factor family; TNF; cytokine;
KW secreted protein; transmembrane protein; inflammation disorder;
KW probe; ss.
XX
OS Synthetic.
OS Homo sapiens.
XX
PN WO9928462-A2.
XX
PD 10-JUN-1999.
XX
PF 01-DEC-1998; 98WO-US25108.
XX
PR 25-FEB-1998; 98US-0075945.
PR 03-DEC-1997; 97US-0067411.
PR 11-DEC-1997; 97US-0069278.
PR 11-DEC-1997; 97US-0069334.
PR 11-DEC-1997; 97US-0069335.
PR 12-DEC-1997; 97US-0069425.
PR 16-DEC-1997; 97US-0069694.
PR 16-DEC-1997; 97US-0069696.
PR 16-DEC-1997; 97US-0069702.
PR 17-DEC-1997; 97US-0069870.
PR 17-DEC-1997; 97US-0069873.
PR 18-DEC-1997; 97US-0068017.
PR 05-JAN-1998; 98US-0070440.
PR 09-FEB-1998; 98US-0074086.
PR 09-FEB-1998; 98US-0074092.
XX
PA (GETH ) GENENTECH INC.
XX
PI Baker KP, Chen J, Goddard A, Gurney AL, Wood WI;
PI Yuan J;
XX
WPI; 1999-371118/31.
XX
PT Nucleic acids encoding PRO secreted and transmembrane proteins
XX
PS Example 11; Page 57; 123pp; English.
XX
CC The present invention describes nucleic acids encoding PRO secreted and
CC transmembrane proteins used therapeutically. The PRO proteins have
CC cytostatic, anti-inflammatory, anti-proliferative and immunosuppressive
CC activity. The proteins and polynucleotides can be used in therapy.
CC identification of homologues, raising antibodies and design of probes
CC and primers. They can be used in a range of diseases related to proteins
CC that they have homology with, e.g. a PRO protein having homology to
CC complement proteins may be used in inflammatory responses. The present
CC sequence represents a probe used in an example from the present
CC invention.
XX
SQ Sequence 45 BP; 8 A; 17 C; 14 G; 6 T; 0 other;

Query Match 2.4%; Score 45; DB 20; Length 45;
Best Local Similarity 100.0%; Pred. No. 1.2e-09;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1254 GCCAAGGACTCCTTCGCTGGGCCACAGGGGAGCACCAGGCCTTC 1298
|||||
Db 178 CCTGACACCAC 189
|||||
RESULT 32
AAX46921
ID AAX46921 standard; cDNA; 45 BP.
XX
AC AAX46921;
XX
DT 03-OCT-2000 (first entry)
XX
DE Probe used to screen for cDNA encoding novel polypeptide PRO347.
XX
KW PRO201; PRO292; PRO327; PRO1265; PRO344; PRO343; PRO347; PRO357;
KW PRO715; PRO1017; PRO1112; PRO509; PRO853; PRO882; tumour cell; probe;
KW tumorigenesis; cancer; neoplastic cell growth; cell proliferation; ss.
XX
OS Homo sapiens.
XX
PN WO200037640-A2.
XX
PD 29-JUN-2000.
XX
PF 16-DEC-1999; 99WO-US30095.
XX
PR 22-DEC-1998; 98US-0113296.
PR 08-MAR-1999; 99WO-US05028.
PR 02-JUN-1999; 99WO-US12252.
PR 01-SEP-1999; 99WO-US20111.
PR 15-SEP-1999; 99WO-US21090.
PR 30-NOV-1999; 99WO-US28313.
PR 30-NOV-1999; 99WO-US28409.
PR 01-DEC-1999; 99WO-US28301.
PR 02-DEC-1999; 99WO-US28565.
XX
PA (GETH ) GENENTECH INC.
XX
PI Botstein D, Goddard A, Gurney AL, Hillan K, Lawrence DA, Roy MA;
PI Wood WI;
XX
WPI; 2000-452188/39.
XX
PT New anti-polypeptide antibody useful in the treatment and diagnosis of
PT neoplastic cell growth and proliferation.
XX
PS Example 9; Page 101; 220pp; English.
XX
CC The present sequence represents a probe used to screen for cDNA
CC encoding a novel human polypeptide. The specification describes
CC novel polypeptides designated PRO201, PRO292, PRO327, PRO1265,
CC PRO344, PRO343, PRO347, PRO357, PRO715, PRO1017, PRO1112, PRO509,
CC PRO853 and PRO882. These genes are amplified in the genome of
CC tumour cells. The polypeptides are believed to contribute
CC to tumorigenesis. The polypeptides are useful target for the
CC identification of certain cancers, and may act as predictors of the
CC prognosis of tumour treatment. Antibodies against these polypeptides
CC are useful in the treatment and diagnosis of neoplastic cell growth
CC and proliferation in mammals.
XX
SQ Sequence 45 BP; 8 A; 17 C; 14 G; 6 T; 0 other;

Query Match 2.4%; Score 45; DB 21; Length 45;
Best Local Similarity 100.0%; Pred. No. 1.2e-09;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1254 GCCAAGGACTCCTTCGCTGGGCCACAGGGGAGCACCAGGCCTTC 1298
|||||
Db 178 CCTGACACCAC 189
|||||
RESULT 33
AAX49497
ID AAX49497 standard; DNA; 45 BP.

```



CC are used in gene therapy. The present sequence is a PCR primer used in  
 CC the invention.

XX Sequence 30 BP; 3 A; 8 C; 11 G; 8 T; 0 other;

Query Match 1.6%; Score 30; DB 24; Length 30;  
 Best Local Similarity 100.0%; Pred. No. 0.0047;  
 Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 108 GGGCCCAACAGACCCCATGCTGCATCCAGAG 137  
 Db 30 GGGCCCAACAGACCCCATGCTGCATCCAGAG 1

## RESULT 35

AAx87290/c

ID AAX87290 standard; DNA; 27 BP.

XX AAX87290;

XX 27-SEP-1999 (first entry)

DE PRO347 probe 44176.tn.pl.

XX PRO347; cancer; tumour; diagnosis; therapy; human; probe; ss.

XX Synthetic.

OS Homo sapiens.

XX WO9935170-A2.

XX 15-JUL-1999.

XX 05-JAN-1999; 99WO-US00106.

XX 20-NOV-1998; 98US-0109304.

XX 05-JAN-1998; 98US-0070440.

XX 29-APR-1998; 98US-0083500.

XX 22-MAY-1998; 98US-0086414.

XX 10-JUN-1998; 98US-0088742.

XX 10-NOV-1998; 98US-0107783.

XX (GETH ) GENENTECH INC.

XX Botstein D, Goddard A, Gurney AL, Hillan KJ, Lawrence DA;

PI Roy MA, Wood WI;

XX WPI; 1999-430385/36.

XX Antibody against proteins expressed in neoplastic cells, useful for

XX tumor diagnosis and treatment

XX Example 2; Page 54; 162pp; English.

XX This is the nucleotide sequence of hybridisation probe 44176.tn.pl

XX that can be used in the identification of DNA44176 (see AAX87260)

XX nucleic acids coding for PRO347 (see AAY06483). This gene is

XX amplified in various tumour lines. The invention identifies 14

XX genes (see AAX87254-67) that are amplified in the genome of certain

XX human lung, colon and/or breast cancers and/or cell lines. This

XX gene amplification is expected to be associated with overexpression

XX of the gene product and to contribute to tumorigenesis. The

XX encoded proteins (see AAY06477-90) may be useful targets for the

XX diagnosis and/or treatment of certain cancers, and may act as

XX predictors of the prognosis of tumour treatment.

XX Sequence 27 BP; 7 A; 10 C; 3 G; 7 T; 0 other;

XX Query Match 1.4%; Score 27; DB 20; Length 27;

XX Best Local Similarity 100.0%; Pred. No. 0.098;

XX Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1714 TGGGAAGATGGGCTTCAATTAGATGCC 1740

Db 27 TGGGAAGATGGGCTTCAATTAGATGCC 1

## RESULT 36

AAA46958/c

ID AAA46958 standard; cDNA; 27 BP.

XX AAA46958;

XX 03-OCT-2000 (first entry)

DE PCR primer used to amplify cDNA encoding novel polypeptide PRO347.

XX PRO201; PRO292; PRO327; PRO1265; PRO344; PRO343; PRO347; PRO357;

XX PRO715; PRO1017; PRO1112; PRO509; PRO882; tumour cell; probe;

XX tumorigenesis; cancer; neoplastic cell growth; cell proliferation;

XX PCR primer; ss.

XX Homo sapiens.

XX WO200037640-A2.

XX 29-JUN-2000.

XX 16-DEC-1999; 99WO-US30095.

XX 22-DEC-1998; 98US-0113296.

XX 08-MAR-1999; 99WO-US05028.

XX 02-JUN-1999; 99WO-US12252.

XX 01-SEP-1999; 99WO-US20111.

XX 15-SEP-1999; 99WO-US21090.

XX 30-NOV-1999; 99WO-US28313.

XX 01-DEC-1999; 99WO-US28409.

XX 02-DEC-1999; 99WO-US28301.

XX (GETH ) GENENTECH INC.

XX Botstein D, Goddard A, Gurney AL, Hillan K, Lawrence DA, Roy MA;

PI Wood WI;

XX WPI; 2000-452188/39.

XX New anti-polypeptide antibody useful in the treatment and diagnosis of

XX neoplastic cell growth and proliferation -

XX Example 17; Page 110; 220pp; English.

XX PCR primers AAA46957-58 and probe AAA46959 were used to isolate cDNA

XX encoding a novel human polypeptide. The specification describes novel

XX polypeptides designated PRO201, PRO292, PRO327, PRO1265, PRO344, PRO343,

XX PRO347, PRO357, PRO1017, PRO1112, PRO509, PRO882 and PRO882.

XX These genes are amplified in the genome of tumour cells. The

XX polypeptides are believed to contribute to tumorigenesis. The

XX polypeptides are useful target for the identification of certain cancers,

XX and may act as predictors of the prognosis of tumour treatment.

XX Antibodies against these polypeptides are useful in the treatment and

XX diagnosis of neoplastic cell growth and proliferation in mammals.

XX Sequence 27 BP; 7 A; 10 C; 3 G; 7 T; 0 other;

XX Query Match 1.4%; Score 27; DB 21; Length 27;

XX Best Local Similarity 100.0%; Pred. No. 0.098;

XX Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1714 TGGGAAGATGGGCTTCAATTAGATGCC 1740

Db 27 TGGGAAGATGGGCTTCAATTAGATGCC 1

## RESULT 37

AAA49533/c

ID AAA49533 standard; DNA; 27 BP.  
 XX AC AAA49533;  
 XX DT 25-SEP-2000 (first entry)  
 XX DE Probe for analysing human PRO347.  
 XX XX  
 KW PRO: membrane bound protein; secreted protein; PRO357; PRO327;  
 KW PRO243; PRO715; PRO241; PRO323; PRO299; PRO233; PRO344; PRO347;  
 KW PRO353; PRO353; PRO361; PRO363; transmembrane polypeptide;  
 KW antibody; screening; detection; inhibition; probe; primer; ss.  
 XX OS Synthetic.  
 XX WO2000032776-A2.  
 XX PN 08-JUN-2000.  
 XX PD 01-DEC-1999; 99WO-US28301.  
 XX PF 01-DEC-1998; 98WO-US25108.  
 XX PR 16-DEC-1998; 98US-0112850.  
 XX PR 22-DEC-1998; 98US-0113296.  
 XX PA (GETH ) GENENTECH INC.  
 XX PI Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;  
 PI Gerritsen ME, Goddard A, Godowski FJ, Grimaldi CJ, Gurney AL;  
 PI Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;  
 XX DR WPI; 2000-412324/35.  
 XX XX  
 PT New human nucleic acids encoding secreted and transmembrane  
 PT polypeptides, designated as PRO polypeptides, useful as pharmaceutical  
 PT and diagnostic agents  
 XX XX  
 PS Example 28; Page 120; 187pp; English.  
 XX XX  
 CC New human nucleic acids encoding secreted and transmembrane  
 CC polypeptides which are designated as PRO polypeptides are described  
 CC The membrane-bound proteins have various industrial applications,  
 CC including as pharmaceutical and diagnostic agents. The membrane-bound  
 CC proteins can also be employed for screening of potential peptide or  
 CC small molecule inhibitors of the relevant receptor/ligand interaction.  
 CC Anti-PRO antibodies are useful for the affinity purification of PRO  
 CC from recombinant cell culture or natural sources. Two primers  
 CC (AAA49532, AAA49534) were used for gene amplification analysis of the  
 CC sequence encoding human PRO347. A hybridisation probe also used in  
 CC the analysis is described (AAA49533).  
 XX XX  
 SQ Sequence 27 BP; 7 A; 10 C; 3 G; 7 T; 0 Other;  
 Query Match 1.4%; Score 27; DB 21; Length 27;  
 Best Local Similarity 100.0%; Pred. No. 0.098;  
 Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1714 TGGGAGATGGGCTTCAATTAGATGGC 1740  
 |||||  
 DB 27 TGGGAGATGGGCTTCAATTAGATGGC 1  
 RESULT 38  
 AAX80090/c  
 ID AAX80090 standard; DNA; 24 BP.  
 XX AC AAX80090;  
 XX XX  
 XX 12-AUG-1999 (first entry)  
 XX DT Human PRO347 PCR primer #2.  
 XX DE Human; PRO protein; tumour necrosis factor family; TNF; cytokine;  
 XX KW secreted protein; transmembrane protein; inflammation disorder;

KW secreted protein; transmembrane protein; inflammation disorder;  
 KW PCR primer; ss.  
 XX OS Synthetic.  
 XX OS Homo sapiens.  
 XX PN WO9928462-A2.  
 XX XX  
 XX 10-JUN-1999.  
 XX PD 01-DEC-1998; 98WO-US25108.  
 XX PF 25-FEB-1998; 98US-0075945.  
 XX PR 03-DEC-1997; 97US-0067411.  
 XX PR 11-DEC-1997; 97US-0069278.  
 XX PR 11-DEC-1997; 97US-0069334.  
 XX PR 11-DEC-1997; 97US-0069335.  
 XX PR 12-DEC-1997; 97US-0069425.  
 XX PR 16-DEC-1997; 97US-0069694.  
 XX PR 16-DEC-1997; 97US-0069702.  
 XX PR 17-DEC-1997; 97US-0069870.  
 XX PR 17-DEC-1997; 97US-0069873.  
 XX PR 18-DEC-1997; 97US-0068017.  
 XX PR 05-JAN-1998; 98US-0070440.  
 XX PR 09-FEB-1998; 98US-0074086.  
 XX PR 09-FEB-1998; 98US-0074092.  
 XX XX  
 XX (GETH ) GENENTECH INC.  
 XX PA Baker KP, Chen J, Goddard A, Gurney AL, Wood WI;  
 XX PI Yuan J;  
 XX PI WPI; 1999-371118/31.  
 XX DR Nucleic acids encoding PRO secreted and transmembrane proteins  
 XX PT Example 11; Page 57; 123pp; English.  
 XX PS  
 CC The present invention describes nucleic acids encoding PRO secreted and  
 CC transmembrane proteins used therapeutically. The PRO proteins have  
 CC cytostatic, anti-inflammatory, anti-proliferative and immunosuppressive  
 CC activity. The proteins and polynucleotides can be used in therapy,  
 CC identification of homologues, raising antibodies and design of probes  
 CC and primers. They can be used in a range of diseases related to proteins  
 CC that they have homology with, e.g. a PRO protein having homology to  
 CC complement proteins may be used in inflammatory responses. The present  
 CC invention represents a PCR primer used in an example from the present  
 CC invention.  
 XX XX  
 SQ Sequence 24 BP; 5 A; 3 C; 13 G; 3 T; 0 Other;  
 Query Match 1.3%; Score 24; DB 20; Length 24;  
 Best Local Similarity 100.0%; Pred. No. 2;  
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1777 CTCCTCTCCACCTGCCGACACCC 1800  
 |||||  
 DB 24 CTCCTCTCCACCTGCCGACACCC 1  
 RESULT 39  
 AAX80089  
 ID AAX80089 standard; DNA; 24 BP.  
 XX AC AAX80089;  
 XX XX  
 XX 12-AUG-1999 (first entry)  
 XX DT Human PRO347 PCR primer #1.  
 XX DE Human; PRO protein; tumour necrosis factor family; TNF; cytokine;  
 XX KW secreted protein; transmembrane protein; inflammation disorder;

```

KW PCR primer; ss.
XX Synthetic.
OS Homo sapiens.
XX WO9928462-A2.
XX PD 10-JUN-1999.
XX PF 01-DEC-1998; 98WO-US25108.
XX PR 25-FEB-1998; 98US-0075945.
XX PR 03-DEC-1997; 97US-0067411.
XX PR 11-DEC-1997; 97US-0069278.
XX PR 11-DEC-1997; 97US-0069334.
XX PR 11-DEC-1997; 97US-0069335.
XX PR 12-DEC-1997; 97US-0069425.
XX PR 16-DEC-1997; 97US-0069694.
XX PR 16-DEC-1997; 97US-0069696.
XX PR 16-DEC-1997; 97US-0069702.
XX PR 17-DEC-1997; 97US-0069870.
XX PR 17-DEC-1997; 97US-0069873.
XX PR 18-DEC-1997; 97US-0068017.
XX PR 05-JAN-1998; 98US-0070440.
XX PR 09-FEB-1998; 98US-0074086.
XX PR 09-FEB-1998; 98US-0074092.
XX (GETH ) GENENTECH INC.
PA Baker KP, Chen J, Goddard A, Gurney AL, Wood WI;
PI Yuan J;
XX WPI; 1999-371118/31.
XX Nucleic acids encoding PRO secreted and transmembrane proteins
XX Example 11; Page 57; 123pp; English.
XX The present invention describes nucleic acids encoding PRO secreted and
XX transmembrane proteins used therapeutically. The PRO proteins have
XX cytostatic, anti-inflammatory, anti-proliferative and immunosuppressive
XX activity. The proteins and polynucleotides can be used in therapy,
XX identification of homologues, raising antibodies and design of probes
XX and primers. They can be used in a range of diseases related to proteins
XX that they have homology with, e.g. a PRO protein having homology to
XX complement proteins may be used in inflammatory responses. The present
XX sequence represents a PCR primer used in an example from the present
XX invention.
XX Sequence 24 BP; 5 A; 7 C; 7 G; 5 T; 0 other;
SQ Query Match 1.3%; Score 24; DB 20; Length 24;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1221 AGGAACCTTCTGGATCGGCTCACC 1244
DB 1 AGGAACCTTCTGGATCGGCTCACC 24
RESULT 40
AAAA6919
ID AAAA6919 standard; cDNA; 24 BP.
XX AC AAA46919;
XX AC AAA46919;
XX AC AAA46919;
DT 03-OCT-2000 (first entry)
DE PCR primer used to amplify cDNA encoding novel polypeptide PRO347.
XX PRO201; PRO292; PRO327; PRO1265; PRO344; PRO343; PRO347; PRO357;
KW PRO715; PRO1017; PRO1112; PRO509; PRO853; PRO882; tumour cell;
KW tumourigenesis; cancer; neoplastic cell growth; cell proliferation;
KW PCR primer; ss.
OS Homo sapiens.
XX WO200037640-A2.
XX PN
XX OS
XX KW

```

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KW PCR primer; ss.
XX Homo sapiens.
XX WO200037640-A2.
XX PD 29-JUN-2000.
XX PF 16-DEC-1999; 99WO-US30095.
XX PR 22-DEC-1998; 98US-0113296.
XX PR 08-MAR-1999; 99WO-US05028.
XX PR 02-JUN-1999; 99WO-US12252.
XX PR 01-SEP-1999; 99WO-US20111.
XX PR 15-SEP-1999; 99WO-US21090.
XX PR 30-NOV-1999; 99WO-US28313.
XX PR 30-NOV-1999; 99WO-US28409.
XX PR 01-DEC-1999; 99WO-US28301.
XX PR 02-DEC-1999; 99WO-US28565.
XX (GETH ) GENENTECH INC.
PA Botstein D, Goddard A, Gurney AL, Hillan K, Lawrence DA, Roy MA;
PI Wood WI;
XX WPI; 2000-452188/39.
XX New anti-polypeptide antibody useful in the treatment and diagnosis of
XX neoplastic cell growth and proliferation -
XX Example 9; Page 101; 220pp; English.
XX PCR primers AAA46919-20 were used to amplify cDNA encoding a novel
XX human polypeptide. The specification describes novel polypeptides
XX designated PRO201, PRO292, PRO327, PRO1265, PRO344, PRO343, PRO347,
XX PRO357, PRO715, PRO1017, PRO1112, PRO509, PRO853 and PRO882. These
XX genes are amplified in the genome of tumour cells. The polypeptides
XX are believed to contribute to tumourigenesis. The polypeptides are
XX useful target for the identification of certain cancers, and may act
XX as predictors of the prognosis of tumour treatment. Antibodies against
XX these polypeptides are useful in the treatment and diagnosis of
XX neoplastic cell growth and proliferation in mammals.
XX Sequence 24 BP; 5 A; 7 C; 7 G; 5 T; 0 other;
SQ Query Match 1.3%; Score 24; DB 21; Length 24;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1221 AGGAACCTTCTGGATCGGCTCACC 1244
DB 1 AGGAACCTTCTGGATCGGCTCACC 24
RESULT 41
AAAA6920/C
ID AAAA6920 standard; cDNA; 24 BP.
XX AC AAA46920;
XX AC AAA46920;
DT 03-OCT-2000 (first entry)
DE PCR primer used to amplify cDNA encoding novel polypeptide PRO347.
XX PRO201; PRO292; PRO327; PRO1265; PRO344; PRO343; PRO347; PRO357;
KW PRO715; PRO1017; PRO1112; PRO509; PRO853; PRO882; tumour cell;
KW tumourigenesis; cancer; neoplastic cell growth; cell proliferation;
KW PCR primer; ss.
OS Homo sapiens.
XX WO200037640-A2.
XX PN
XX OS
XX KW

```



PD 29-JUN-2000.  
 XX 16-DEC-1999; 99WO-US30095.  
 XX 22-DEC-1998; 98US-0113296.  
 PR 08-MAR-1999; 99WO-US05028.  
 PR 02-JUN-1999; 99WO-US12252.  
 PR 01-SEP-1999; 99WO-US20111.  
 PR 15-SEP-1999; 99WO-US21090.  
 PR 30-NOV-1999; 99WO-US28313.  
 PR 30-NOV-1999; 99WO-US28409.  
 PR 01-DEC-1999; 99WO-US28301.  
 PR 02-DEC-1999; 99WO-US28565.  
 XX (GETH ) GENENTECH INC.  
 XX Botstein D, Goddard A, Gurney AL, Hillan K, Lawrence DA, Roy MA;  
 PI Wood WI;  
 XX WPI; 2000-452188/39.  
 DR WPI; 2000-452188/39.  
 XX New anti-polypeptide antibody useful in the treatment and diagnosis of  
 PT neoplastic cell growth and proliferation -  
 XX Example 9; Page 101; 220pp; English.  
 XX PCR primers AAA46919-20 were used to amplify cDNA encoding a novel  
 CC human polypeptide. The specification describes novel polypeptides  
 CC designated PRO201, PRO327, PRO1265, PRO343, PRO347,  
 CC PRO357, PRO115, PRO117, PRO112, PRO509, PRO853 and PRO882. These  
 CC genes are amplified in the genome of tumour cells. The polypeptides  
 CC are believed to contribute to tumourigenesis. The polypeptides are  
 CC useful target for the identification of certain cancers, and may act  
 CC as predictors of the prognosis of tumour treatment. Antibodies against  
 CC these polypeptides are useful in the treatment and diagnosis of  
 CC neoplastic cell growth and proliferation in mammals.  
 XX Sequence 24 BP; 5 A; 3 C; 13 G; 3 T; 0 other;  
 SQ

Query Match 1.3%; Score 24; DB 21; Length 24;  
 Best Local Similarity 100.0%; Pred. No. 2;  
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1777 CTCCTCTCCACCTGGCCGACGCC 1800  
 DB 24 CTCCTCTCCACCTGGCCGACGCC 1

RESULT 42  
 AAA49495  
 ID AAA49495 standard; DNA; 24 BP.  
 XX  
 AC AAA49495;  
 XX  
 DT 25-SEP-2000 (first entry)  
 XX  
 DE Primer for isolating cDNA clones encoding human PRO347.  
 DE  
 KW PRO; membrane bound protein; secreted protein; PRO357; PRO327;  
 KW PRO243; PRO115; PRO241; PRO323; PRO299; PRO344; PRO347;  
 KW PRO355; PRO361; PRO365; transmembrane polypeptide;  
 KW antibody; screening; detection; inhibition; probe; primer; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200032776-A2.  
 XX  
 PD 08-JUN-2000.  
 XX  
 PF 01-DEC-1999; 99WO-US28301.  
 XX  
 PR 01-DEC-1998; 98WO-US25108.  
 PR 16-DEC-1998; 98US-0112850.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200032776-A2.  
 XX  
 PD 08-JUN-2000.  
 XX  
 PF 01-DEC-1999; 99WO-US28301.  
 XX  
 PR 01-DEC-1998; 98WO-US25108.  
 PR 16-DEC-1998; 98US-0112850.

PR 22-DEC-1998; 98US-0113296.  
 XX (GETH ) GENENTECH INC.  
 XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;  
 PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL;  
 PI Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;  
 XX WPI; 2000-412324/35.  
 DR WPI; 2000-412324/35.  
 XX New human nucleic acids encoding secreted and transmembrane  
 PT polypeptides, designated as PRO polypeptides, useful as pharmaceutical  
 PT and diagnostic agents  
 XX Example 11; Page 103; 187pp; English.  
 XX New human nucleic acids encoding secreted and transmembrane  
 CC polypeptides which are designated as PRO polypeptides are described  
 CC The membrane-bound proteins have various industrial applications,  
 CC including as pharmaceutical and diagnostic agents. The membrane-bound  
 CC proteins can also be employed for screening of potential peptide or  
 CC small molecule inhibitors of the relevant receptor/ligand interaction.  
 CC Anti-PRO antibodies are useful for the affinity purification of PRO  
 CC from recombinant cell culture or natural sources. Two primers  
 CC (AAA49495, AAA49496) were used to isolate the cDNA sequence encoding  
 CC human PRO347. A hybridisation probe for human PRO347 is also  
 CC described (AAA49497).  
 XX Sequence 24 BP; 5 A; 7 C; 7 G; 5 T; 0 other;  
 SQ

Query Match 1.3%; Score 24; DB 21; Length 24;  
 Best Local Similarity 100.0%; Pred. No. 2;  
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1221 AGGAACCTCTGGATCGGCTCACC 1244  
 DB 1 AGGAACCTCTGGATCGGCTCACC 24

RESULT 43  
 AAA49496/c  
 ID AAA49496 standard; DNA; 24 BP.  
 XX  
 AC AAA49496;  
 XX  
 DT 25-SEP-2000 (first entry)  
 XX  
 DE Primer for isolating cDNA clones encoding human PRO347.  
 DE  
 KW PRO; membrane bound protein; secreted protein; PRO357; PRO327;  
 KW PRO243; PRO115; PRO241; PRO323; PRO299; PRO344; PRO347;  
 KW PRO355; PRO361; PRO365; transmembrane polypeptide;  
 KW antibody; screening; detection; inhibition; probe; primer; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200032776-A2.  
 XX  
 PD 08-JUN-2000.  
 XX  
 PF 01-DEC-1999; 99WO-US28301.  
 XX  
 PR 01-DEC-1998; 98WO-US25108.  
 PR 16-DEC-1998; 98US-0112850.  
 PR 22-DEC-1998; 98US-0113296.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200032776-A2.  
 XX  
 PD 08-JUN-2000.  
 XX  
 PF 01-DEC-1999; 99WO-US28301.  
 XX  
 PR 01-DEC-1998; 98WO-US25108.  
 PR 16-DEC-1998; 98US-0112850.  
 PR 22-DEC-1998; 98US-0113296.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200032776-A2.  
 XX  
 PD 08-JUN-2000.  
 XX  
 PF 01-DEC-1999; 99WO-US28301.  
 XX  
 PR 01-DEC-1998; 98WO-US25108.  
 PR 16-DEC-1998; 98US-0112850.

(GETH ) GENENTECH INC.  
 Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;  
 Gerritsen ME, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL;  
 Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;  
 WPI; 2000-412324/35.

XX New human nucleic acids encoding secreted and transmembrane  
PT polypeptides, designated as PRO polypeptides, useful as pharmaceutical  
PT and diagnostic agents  
XX  
PS Example 11; Page 103; 187pp; English.  
XX  
CC New human nucleic acids encoding secreted and transmembrane  
CC polypeptides which are designated as PRO polypeptides are described  
CC The membrane-bound proteins have various industrial applications,  
CC including as pharmaceutical and diagnostic agents. The membrane-bound  
CC proteins can also be employed for screening of potential peptide or  
CC small molecule inhibitors of the relevant receptor/ligand interaction.  
CC Anti-PRO antibodies are useful for the affinity purification of PRO  
CC from recombinant cell culture or natural sources. Two primers  
CC (AAA49495, AAA49496) were used to isolate the cDNA sequence encoding  
CC human PRO347. A hybridisation probe for human PRO347 is also  
CC described (AAA49497).  
XX  
SQ Sequence 24 BP; 5 A; 3 C; 13 G; 3 T; 0 other;  
Query Match 1.3%; Score 24; DB 21; Length 24;  
Best Local Similarity 100.0%; Pred. No. 2;  
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1777 CTCTCTCCACCTGGCCGACGCC 1800  
|||||  
DB 24 CTCTCTCCACCTGGCCGACGCC 1

RESULT 44  
AAT12249/c  
ID AAT12249 standard; DNA; 7216 BP.  
XX  
AC AAT12249;  
XX  
DT 08-APR-1996 (first entry)  
XX  
DE Cytochrome P450 isoenzyme mutant CYP2A6v2 genomic DNA.  
XX  
KW CYP2A6v2; cytochrome P450 isoenzyme; drug metabolism; gene therapy;  
KW polymorphism; genotyping; ss.  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FT misc\_difference 2019  
FT /\*tag= a  
FT /\*note= "base n at position 2019 is not identified  
FT in the specification"  
XX  
PN W09534679-A2.  
XX  
PD 21-DEC-1995.  
XX  
PF 16-JUN-1995; 95WO-US07605.  
XX  
PR 12-APR-1995; 95GB-0007640.  
PR 16-JUN-1994; 94GB-0012054.  
PR 13-FEB-1995; 95GB-0002728.  
XX  
PA (USSH ) US DEPT HEALTH & HUMAN SERVICES.  
XX  
PI Gonzalez FJ, Idle JR;  
XX  
DR WPI; 1996-049706/05.  
XX  
PT Cytochrome P450 isoenzyme mutant genes - used for developing prods.  
PT for detecting or treating sensitivity to drugs or carcinogens  
PS Claim 2; Fig 12; 65pp; English.  
XX  
CC cDNA (AAT12248) and genomic (AAT12249) sequences were detected for

CC a new mutant variant, designated CYP2A6v2, of cytochrome P450  
CC isoenzyme CYP2A6, an allele associated with drug sensitivity and  
CC carcinogen metabolism. Alterations in sequence from the wild-type  
CC CYP2A6 gene occur within exons 3, 6 and 8, and are attributed to  
CC gene conversion. The nucleic acid sequences can be used to  
CC determine a patient's sensitivity to drugs or to chemical or  
CC environmental carcinogens, and can also be used in gene therapy,  
CC in gene polymorphism detection and in genotyping.  
XX  
SQ Sequence 7216 BP; 1646 A; 2195 C; 1747 G; 1627 T; 1 other;  
Query Match 1.1%; Score 21; DB 17; Length 7216;  
Best Local Similarity 100.0%; Pred. No. 30;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1634 GGGCAGAGAGAGGGCAGGGAGG 1654  
|||||  
DB 1605 GGGCAGAGAGAGGGCAGGGAGG 1585

RESULT 45  
ABK84266/c  
ID ABK84266 standard; cDNA; 8778 BP.  
XX  
AC ABK84266;  
XX  
DT 14-AUG-2002 (first entry)  
XX  
DE Human cDNA differentially expressed in granulocytic cells #837.  
XX  
KW Human; ss; granulocytic cell; DNA chip; bacterial infection;  
KW viral infection; parasitic infection; protozoal infection;  
KW fungal infection; sterile inflammatory disease; psoriasis;  
KW rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;  
KW cardiac reperfusion injury; renal reperfusion injury; ARDS;  
KW adult respiratory distress syndrome; inflammatory bowel disease;  
KW Crohn's disease; ulcerative colitis; periodontal disease;  
KW granulocyte activation; chronic inflammation; allergy.  
XX  
OS Homo sapiens.  
XX  
PN W0200228999-A2.  
XX  
PD 11-APR-2002.  
XX  
PF 03-OCT-2001; 2001WO-US30821.  
XX  
PR 03-OCT-2000; 2000US-237189p.  
XX  
PA (GENE-) GENE LOGIC INC.  
XX  
PI Beazer-Barclay Y, Weissman SM, Yamaga S, Vockley J;  
XX  
DR WPI; 2002-435328/46.  
XX  
PT Detecting granulocyte activation by detecting differential expression  
PT of genes associated with granulocyte activation, which serves as  
PT diagnostic markers that is useful for monitoring disease states and  
PT drug toxicity -  
XX  
PS Claim 1; SEQ ID No 837; 114pp; English.  
XX  
CC The invention relates to detecting (M1) granulocyte (GC) activation  
CC (GCA), by detecting the level of expression of gene(s) (Gs) identified by  
CC DNA chip analysis as given in the specification, and comparing  
CC the expression level to an expression level in an unactivated  
CC GC, where differential expression of Gs is indicative of GCA.  
CC Also included are modulating (M2) GA by contacting GC with an agent  
CC that alters the expression of at least one gene in Gs. (2) screening (M3)  
CC for an agent capable of modulating GCA or an inflammation (especially  
CC chronic) in a tissue, an allergic response in a subject, exposure of a  
CC subject to a pathogen or sterile inflammatory disease using the  
CC gene expression profile; (3) detecting (M4) an inflammation (especially

chronic) in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease, by detecting the level of expression in a sample of the tissue of gene(s) from Gs, where the level of expression of the gene is indicative of inflammation; (4) treating (M5) an inflammation (especially chronic) or in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease, by contacting a tissue having inflammation with an agent that modulates the expression of gene(s) from Gs in the tissue. M1 is useful for detecting GCA; M2 is useful for GCA preferably in an inflammation in a tissue; M4 is useful for detecting an inflammation (especially chronic) in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease (e.g. psoriasis, rheumatoid arthritis, renal glomerulonephritis, asthma, thrombosis, cardiac reperfusion injury, renal reperfusion injury, ARDS, adult respiratory distress syndrome, inflammatory bowel disease, Crohn's disease, ulcerative colitis, periodontal disease; also bacterial infection, viral infection, parasitic infection, protozoal infection, fungal infection and M5 is useful for treating one of the above conditions. The present sequence represents a gene differentially expressed in granulocytes. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published\\_pct\\_sequences](http://wipo.int/pub/published_pct_sequences).

Sequence 8778 BP; 2030 A; 2663 C; 2014 G; 2071 T; 0 other; Query Match 1.1%; Score 21; DB 24; Length 8778; Best Local Similarity 100.0%; Pred. No. 29; Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1634 GGGCAGAGAGAGGAGGAGG 1634  
|||||  
Db 1492 GGGCAGAGAGAGGAGGAGG 1472

RESULT 46  
ABK12674  
ID ABK12674 standard; DNA; 27780 BP.

AC ABK12674;  
XX 18-JUN-2002 (first entry)

DE Selectin L Lymphocyte Adhesion Molecule 1 (SELL) gene.

DE Human; Selectin L Lymphocyte Adhesion Molecule 1 (SELL); gene; neonatal pertussis; whooping cough; haplotyping; ds;  
KW single nucleotide polymorphism.

XX Homo sapiens.

XX Key Location/Qualifiers  
FH variation replace (3349,G)  
FT /\*tag= a  
FT /\*standard\_name= "Single nucleotide polymorphism"  
FT replace (3444,C)  
FT /\*tag= b  
FT /\*standard\_name= "Single nucleotide polymorphism"  
FT CDS 4067..23781  
FT /\*tag= c  
FT /\*product= "Selectin L Lymphocyte Adhesion Molecule 1"  
FT replace (4260,T)  
FT /\*tag= d  
FT /\*standard\_name= "Single nucleotide polymorphism"  
FT replace (5153,A)  
FT /\*tag= e  
FT /\*standard\_name= "Single nucleotide polymorphism"  
FT replace (6682,G)  
FT /\*tag= f  
FT /\*standard\_name= "Single nucleotide polymorphism"  
FT variation replace (6783,G)

FT /\*tag= g  
FT /\*standard\_name= "Single nucleotide polymorphism"  
FT replace (6784,T)  
FT /\*tag= h  
FT /\*standard\_name= "Single nucleotide polymorphism"  
FT replace (6997,C)  
FT /\*tag= i  
FT /\*standard\_name= "Single nucleotide polymorphism"  
FT replace (7027,C)  
FT /\*tag= j  
FT /\*standard\_name= "Single nucleotide polymorphism"  
FT replace (8220,C)  
FT /\*tag= k  
FT /\*standard\_name= "Single nucleotide polymorphism"  
FT replace (10868,T)  
FT /\*tag= l  
FT /\*standard\_name= "Single nucleotide polymorphism"  
FT replace (12363,A)  
FT /\*tag= m  
FT /\*standard\_name= "Single nucleotide polymorphism"  
FT replace (13838,A)  
FT /\*tag= n  
FT /\*standard\_name= "Single nucleotide polymorphism"  
FT replace (18851,G)  
FT /\*tag= o  
FT /\*standard\_name= "Single nucleotide polymorphism"  
FT replace (19074,G)  
FT /\*tag= p  
FT /\*standard\_name= "Single nucleotide polymorphism"  
FT replace (19155,A)  
FT /\*tag= q  
FT /\*standard\_name= "Single nucleotide polymorphism"  
FT replace (23767,T)  
FT /\*tag= r  
FT /\*standard\_name= "Single nucleotide polymorphism"  
FT replace (23925,C)  
FT /\*tag= s  
FT /\*standard\_name= "Single nucleotide polymorphism"  
FT replace (24041,C)  
FT /\*tag= t  
FT /\*standard\_name= "Single nucleotide polymorphism"  
FT replace (24122,T)  
FT /\*tag= u  
FT /\*standard\_name= "Single nucleotide polymorphism"

WO200216654-A1.

28-FEB-2002.

27-AUG-2001; 2001WO-US266675.

25-AUG-2000; 2000US-228262P.

(GENA-) GENAISSANCE PHARM INC.

Anastasio AE, Bieglecki KM, Kliem SE, Koshy B, Kumar AM;

WPI; 2002-292071/33.  
P-PSDB; AAU76539.

Novel genetic variants of selectin L lymphocyte adhesion molecule 1 (SELL) gene useful for therapeutic purposes and for expressing SELL protein useful in identifying drugs to treat whooping cough -

Claim 1; Fig 1; 137pp; English.

The invention relates to an isolated polynucleotide (I) comprising a nucleotide sequence which is a polymorphic variant of a reference sequence for Selectin L Lymphocyte Adhesion Molecule 1 (SELL) gene. SELL polypeptide is useful for screening for drugs targeting the polypeptide. Oligonucleotides derived from (I) are used to target SELL and a haplotype or haplotype pair of SELL gene. These are useful in developing diagnostic tests and therapeutic treatments for neonatal

CC pertussis (whooping cough). (1) is useful for studying the expression and  
CC function of SELL and expressing SELL protein for use in screening for  
CC candidate drugs to treat diseases related to SELL activity. The  
CC polymorphism and haplotype data are useful for validating whether SELL is  
CC a suitable target for drugs to treat whooping cough, screening for such  
CC drugs and reducing bias in clinical trials of such drugs. Establishing  
CC the SELL haplotype or haplotype pair of an individual is useful for  
CC improving the efficiency and reliability of several steps in the  
CC discovery and development of drugs for treating diseases associated with  
CC SELL activity e.g. neonatal pertussis (whooping cough). The haplotyping  
CC method is useful to validate SELL as a candidate target for treating a  
CC specific condition or disease predicted to be associated with SELL  
CC activity. The method is also useful in screening for compounds  
CC targeting SELL to treat a specific condition or disease predicted to be  
CC associated with SELL activity, e.g. detecting which of the SELL  
CC haplotypes or haplotype pairs present in individual members of a  
CC population with the specific disease of interest enables one to screen  
CC for compounds that display the highest desired agonist or antagonist  
CC activity for each of the most frequent SELL isoforms present in the  
CC disease population. A polymorphic variant of SELL is useful in studying  
CC the effect of the variation on the biological activity of SELL, on the  
CC binding affinity of candidate drugs targeting SELL for the treatment of  
CC neonatal pertussis (whooping cough) and in assays to measure the  
CC binding affinities of one or more candidate drugs targeting the SELL  
CC protein. The present sequence represents the SELL gene.

XX SQ Sequence 27780 BP; 8061 A; 5257 C; 5581 G; 8860 T; 21 other;

Query Match 1.1%; Score 21; DB 24; Length 27780;  
Best Local Similarity 100.0%; Pred. No. 27;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1636 GCAGAGAGCGCAGGAGGCC 1656

|||||

Db 12949 GCAGAGAGCGCAGGAGGCC 12969

RESULT 47

AAA34791/c

ID AAA34791 standard; DNA; 138169 BP.

AC AAA34791;

XX

XX 28-JUL-2000 (first entry)

DT Human adenosine receptor related polynucleotide SEQ ID NO:2480.

DE Human; adenosine receptor; low adenosine antisense oligonucleotide;  
DE phosphorothioate; impaired respiration; inflammation; allergy;  
DE allergic disease; bronchoconstriction; inhibitor; antiinflammatory;  
DE antiallergic; antiasthmatic; cytostatic; analgesic; hypotensive; cytostatic;  
DE lung disease; ischaemic condition; pulmonary vasoconstriction; impaired airway;  
DE respiratory distress syndrome; pain; cystic fibrosis; asthma;  
DE pulmonary hypertension; chronic obstructive pulmonary disease; COPD;  
DE cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.

XX Homo sapiens.

OS

XX WO200009525-A2.

PN

XX 24-FEB-2000.

PD

XX 03-AUG-1999; 99WO-US17712.

PF

XX 03-AUG-1998; 98US-0095212.

PR

XX (UYEC-) UNIV EAST CAROLINA.

PA

XX Nyce JW;

PI

XX WPI; 2000-205971/18.

DR

XX New antisense oligonucleotides useful for treating e.g. pulmonary

PT

PT vasoconstriction, inflammation, allergies, asthma, hypertension,  
PT bronchitis, emphysema, respiratory distress syndrome, ischemia or  
PT cancers -

XX Disclosure; Page 613-645; 1343pp; English.

PS

XX The present invention describes a new composition comprising an

CC antisense oligonucleotide (ON) with low adenosine (up to 15%), which

CC targets nucleic acids involved in bronchoconstriction, allergies, and/or

CC inflammation. The ON can have antiinflammatory, antiallergic,

CC antiasthmatic, cytostatic and analgesic activities. The compositions are

CC useful for the treatment of diseases associated with inflammation,

CC impaired airways, including lung disease and diseases whose secondary

CC effects afflict the lungs of a subject. They can be used for treating

CC e.g. ischaemic conditions, pulmonary vasoconstriction, allergies,

CC asthma, impaired respiration, respiratory distress syndrome, pain, cystic

CC fibrosis, pulmonary hypertension, emphysema, chronic obstructive

CC pulmonary disease (COPD), and cancers such as leukaemias, lymphomas,

CC carcinomas, and cancers which may metastasize to the lungs, including

CC the breast and prostate cancer. The reduction of the adenosine content of

CC the ONs reduces side effects. The A-containing ONs break down with the

CC release of deoxyadenosine which activates adenosine receptors causing

CC bronchoconstriction and inflammation. AAA32313 to AAA35312 represent the

CC nucleotide sequences given in the sequence listing from the present

CC invention, which correspond to SEQ ID NO:1 to 185, and then the last

CC 185 sequences are also called SEQ ID NO:1 to 185, but the sequences

CC differ from the previously named sequences. SEQ ID NO:11 to 1680

CC (AAA32323 to AAA3992) are specifically claimed ONs from the present

CC invention. N.B. Sequences given in the disclosure of the present

CC invention do not match up with their corresponding SEQ ID NO: sequences

CC given in the sequence listing.

XX

XX SQ Sequence 138169 BP; 41766 A; 28262 C; 26273 G; 41868 T; 0 other;

Query Match 1.1%; Score 21; DB 21; Length 138169;

Best Local Similarity 100.0%; Pred. No. 25;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1636 GCAGAGAGCGCAGGAGGCC 1656

|||||

Db 31241 GCAGAGAGCGCAGGAGGCC 31221

RESULT 48

AAF20913/c

ID AAF20913 standard; DNA; 141589 BP.

AC AAF20913;

XX

XX 14-MAR-2001 (first entry)

DT Human ELAM-1 polynucleotide fragment #2480.

DE Low adenosine antisense oligonucleotide; phosphorothioate; allergy;

DE human; airway disorder; bronchoconstriction; lung inflammation;

DE surfactant depletion; respiratory bronchodilator; antiinflammatory;

DE immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic;

DE respiratory obstruction; pulmonary obstruction; impeded respiration;

DE surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS;

DE respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis;

DE pulmonary hypertension; emphysema; pulmonary transplantation rejection;

DE chronic obstructive pulmonary disease; pulmonary infection; bronchitis;

DE cancer; ss.

XX Homo sapiens.

OS

XX WO2000062736-A2.

PN

XX 26-OCT-2000.

PD

XX 24-MAR-2000; 2000WO-US08020.

PF

XX 06-APR-1999; 99US-0127958.

PR

XX (UYEC-) UNIV EAST CAROLINA.  
PA (NYCE/) NYCE J W.  
XX NYCE JW;  
PI WPI; 2000-679539/66.  
DR  
XX  
XX Low adenine (A) content antisense oligonucleotides which do not  
PT trigger adenine receptors during metabolism, useful e.g. for treating  
PT cancers and respiratory obstructions -  
XX  
PS Disclosure; Page 178-205; 1592pp; English.  
XX  
CC The present invention describes low adenine (A) content antisense  
CC oligonucleotides and compositions (I) comprising them. In the antisense  
CC oligonucleotides the A is replaced by a 'Universal' or alternative base.  
CC (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,  
CC immunosuppressive, antiasthmatic, hypotensive and cytostatic activities.  
CC The antisense oligonucleotides and (I) can be used to down-regulate the  
CC expression and/or activity of target polypeptides associated with  
CC lung/respiratory disorders and malignancies, such as stimulating and  
CC activating peptide factors and transmitters, transcription factors,  
CC immunoglobulins and antibodies, antibody receptors, cytokines and  
CC chemokines, endogenously produced specific and non-specific enzymes,  
CC binding proteins, adenosine receptors, bradykinin receptors, central  
CC nervous system (CNS) and peripheral nervous and non-nervous system  
CC receptors, CNS and peripheral nervous and non-nervous system peptide  
CC transmitters, defensins, growth factors, vasoactive peptides and  
CC receptors, binding proteins and malignancy associated proteins. The  
CC antisense oligonucleotides may be used in this way to treat disorders  
CC including respiratory obstruction (especially pulmonary obstruction  
CC and/or bronchoconstriction) and/or lung inflammation, allergy(ies)  
CC and/or surfactant hypoproduction which are associated with a disease or  
CC condition selected from pulmonary vasoconstriction, inflammation,  
CC allergies, asthma, impeded respiration, respiratory distress syndrome  
CC (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary  
CC hypertension, emphysema, chronic obstructive pulmonary disease (COPD),  
CC pulmonary transplantation rejection, pulmonary infections, bronchitis,  
CC and/or cancer. AAF18434 to AAF21543 represent human polynucleotide  
CC fragments and antisense oligonucleotides used in the exemplification of  
CC the present invention.  
XX  
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Best Local Similarity 100.0%; Pred. No. 25;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 31241 GCAGAGAGCGAGGAGGCC 31221  
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XX AAF21127;  
AC  
XX  
XX 14-MAR-2001 (first entry)  
DT  
XX  
XX Human low adenine antisense oligonucleotide related sequence #2694.  
DE  
XX  
XX Low adenine antisense oligonucleotide; phosphorothioate; allergy;  
XX human; airway disorder; bronchoconstriction; lung inflammation;  
XX surfactant depletion; respiratory; bronchodilator; antiinflammatory;  
XX immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic;  
XX respiratory obstruction; pulmonary obstruction; impeded respiration;  
XX surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS;  
XX respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis;  
XX pulmonary hypertension; emphysema; pulmonary transplantation rejection;  
KW chronic obstructive pulmonary disease; pulmonary infection; bronchitis;  
cancer; ss.  
KW  
XX Homo sapiens.  
OS  
XX WO200062736-A2.  
PN  
XX 26-OCT-2000.  
PD  
XX 24-MAR-2000; 2000WO-US08020.  
PF  
XX 06-APR-1999; 99US-0127958.  
PR  
XX (UYEC-) UNIV EAST CAROLINA.  
PA (NYCE/) NYCE J W.  
XX NYCE JW;  
PI WPI; 2000-679539/66.  
DR  
XX Low adenine (A) content antisense oligonucleotides which do not  
PT trigger adenine receptors during metabolism, useful e.g. for treating  
PT cancers and respiratory obstructions -  
XX  
PS Disclosure; Page 992-1024; 1592pp; English.  
XX  
CC The present invention describes low adenine (A) content antisense  
CC oligonucleotides and compositions (I) comprising them. In the antisense  
CC oligonucleotides the A is replaced by a 'Universal' or alternative base.  
CC (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,  
CC immunosuppressive, antiasthmatic, hypotensive and cytostatic activities.  
CC The antisense oligonucleotides and (I) can be used to down-regulate the  
CC expression and/or activity of target polypeptides associated with  
CC lung/respiratory disorders and malignancies, such as stimulating and  
CC activating peptide factors and transmitters, transcription factors,  
CC immunoglobulins and antibodies, antibody receptors, cytokines and  
CC chemokines, endogenously produced specific and non-specific enzymes,  
CC binding proteins, adenosine receptors, bradykinin receptors, central  
CC nervous system (CNS) and peripheral nervous and non-nervous system  
CC receptors, CNS and peripheral nervous and non-nervous system peptide  
CC transmitters, defensins, growth factors, vasoactive peptides and  
CC receptors, binding proteins and malignancy associated proteins. The  
CC antisense oligonucleotides may be used in this way to treat disorders  
CC including respiratory obstruction (especially pulmonary obstruction  
CC and/or bronchoconstriction) and/or lung inflammation, allergy(ies)  
CC and/or surfactant hypoproduction which are associated with a disease or  
CC condition selected from pulmonary vasoconstriction, inflammation,  
CC allergies, asthma, impeded respiration, respiratory distress syndrome  
CC (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary  
CC hypertension, emphysema, chronic obstructive pulmonary disease (COPD),  
CC pulmonary transplantation rejection, pulmonary infections, bronchitis,  
CC and/or cancer. AAF18434 to AAF21543 represent human polynucleotide  
CC fragments and antisense oligonucleotides used in the exemplification of  
CC the present invention.  
XX  
SQ Sequence 141589 BP; 42855 A; 28938 C; 26863 G; 42932 T; 0 other;  
Query Match 1.1%; Score 21; DB 21; Length 141589;  
Best Local Similarity 100.0%; Pred. No. 25;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1636 GCAGAGAGCGAGGAGGCC 1656  
Db 31241 GCAGAGAGCGAGGAGGCC 31221  
RESULT 50  
AAF21152/c  
ID AAF21152 standard; DNA; 141589 BP.  
XX AAF21152;  
AC  
XX

DT 14-MAR-2001 (first entry)  
 XX Human low adenosine antisense oligonucleotide related sequence #2719.  
 DE Low adenosine antisense oligonucleotide; phosphorothioate; allergy;  
 XX human; airway disorder; bronchoconstriction; lung inflammation;  
 KW surfactant depletion; respiratory; bronchodilator; antiinflammatory;  
 KW immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic;  
 KW respiratory obstruction; pulmonary obstruction; impeded respiration;  
 KW surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS;  
 KW respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis;  
 KW pulmonary hypertension; emphysema; pulmonary transplantation rejection;  
 KW chronic obstructive pulmonary disease; pulmonary infection; bronchitis;  
 KW cancer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO2000062736-A2.  
 PN  
 XX  
 XX 26-OCT-2000.  
 PD  
 XX  
 XX 24-MAR-2000; 2000WO-US08020.  
 PF  
 XX  
 XX 06-APR-1999; 99US-0127958.  
 PR  
 XX  
 XX (UYEC-) UNIV EAST CAROLINA.  
 PA  
 PA (NYCE/) NYCE J W.  
 XX  
 XX Nyce JW;  
 PI  
 XX  
 XX WPI; 2000-679539/66.  
 DR  
 XX  
 XX Low adenosine (A) content antisense oligonucleotides which do not  
 PT trigger adenosine receptors during metabolism, useful e.g. for treating  
 PT cancers and respiratory obstructions -  
 XX  
 XX Disclosure; Page 1049-1081; 1592pp; English.  
 PS  
 XX  
 CC The present invention describes low adenosine (A) content antisense  
 CC oligonucleotides and compositions (I) comprising them. In the antisense  
 CC oligonucleotides the A is replaced by a 'Universal' or alternative base.  
 CC (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,  
 CC immunosuppressive, antiasthmatic, hypotensive and cytostatic activities.  
 CC The antisense oligonucleotides and (I) can be used to down-regulate the  
 CC expression and or activity of target polypeptides associated with  
 CC lung/respiratory disorders and malignancies, such as stimulating and  
 CC activating peptide factors and transmitters, transcription factors,  
 CC immunoglobulins and antibodies, antibody receptors, cytokines and  
 CC chemokines, endogenously produced specific and non-specific enzymes,  
 CC binding proteins, adhesion molecules and their receptors, cytokine and  
 CC chemokine receptors, adenosine receptors, bradykinin receptors, central  
 CC nervous system (CNS) and peripheral nervous and non-nervous system  
 CC receptors, CNS and peripheral nervous and non-nervous system peptide  
 CC transmitters, defensins, growth factors, vasoactive peptides and  
 CC receptors, binding proteins and malignancy associated proteins. The  
 CC antisense oligonucleotides may be used in this way to treat disorders  
 CC including respiratory obstruction (especially pulmonary obstruction  
 CC and/or bronchoconstriction) and/or lung inflammation, allergy(ies)  
 CC and/or surfactant hypoproduction which are associated with a disease or  
 CC condition selected from pulmonary vasoconstriction, inflammation,  
 CC allergies, asthma, impeded respiration, respiratory distress syndrome  
 CC (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary  
 CC hypertension, emphysema, chronic obstructive pulmonary disease (COPD),  
 CC pulmonary transplantation rejection, pulmonary infections, bronchitis,  
 CC and/or cancer. AAF18434 to AAF21543 represent human polynucleotide  
 CC fragments and antisense oligonucleotides used in the exemplification of  
 CC the present invention.  
 XX  
 XX Sequence 141589 BP; 42855 A; 28938 C; 26864 G; 42932 T; 0 other;  
 SQ  
 Query Match 1.1%; Score 21; DB 21; Length 141589;  
 Best Local Similarity 100.0%; Pred. No. 25;  
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1636 GCAGAGAGAGCAGGAGGCC 1656  
 |||||  
 Db 31241 GCAGAGAGAGCAGGAGGCC 31221

Search completed: December 28, 2002, 23:25:31  
 Job time : 1264 secs

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OM nucleic - nucleic search, using sw model

Run on: December 28, 2002, 23:04:38 ; Search time 85 Seconds

(without alignments)  
6768.537 Million cell updates/sec

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Perfect score: 1876

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Scoring table: OLIGO\_NUC

Gapop 60.0 , Gapext 60.0

Searched: 441362 seqs, 153338381 residues

Word size : 10

Total number of hits satisfying chosen parameters: 164122

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Database : Issued\_Patents\_NA.\*

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6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

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| 15         | 18    | 1.0         | 669    | US-09-328-111-342  | Sequence 342, App  |
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| 20         | 18    | 1.0         | 1568   | US-09-247-155-68   | Sequence 68, Appli |
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| 24         | 18    | 1.0         | 1844   | US-09-123-912-88   | Sequence 88, Appli |
| 25         | 18    | 1.0         | 1844   | US-09-643-597-88   | Sequence 88, Appli |
| 26         | 18    | 1.0         | 1927   | US-08-837-199A-9   | Sequence 9, Appli  |
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| 1.0 | 1929  | 4 | US-08-837-199A-41  | Sequence 41, Appli  |
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| 0.9 | 42    | 5 | PCT-US93-02612-7   | Sequence 7, Appli   |
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| 0.9 | 457   | 3 | US-09-210-681-34   | Sequence 34, Appli  |
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| 0.9 | 498   | 1 | US-08-318-193-59   | Sequence 59, Appli  |
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| 0.9 | 623   | 6 | 5240847-1          | Patent No. 5240847  |
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| 0.9 | 1240  | 4 | US-08-957-351-8    | Sequence 8, Appli   |
| 0.9 | 1434  | 4 | US-08-821-994-62   | Sequence 62, Appli  |
| 0.9 | 1512  | 3 | US-08-909-965C-8   | Sequence 8, Appli   |
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| 0.9 | 1866  | 3 | US-08-909-742-1    | Sequence 1, Appli   |
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| 0.9 | 2663  | 4 | US-08-923-454A-26  | Sequence 8, Appli   |
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| 0.9 | 3923  | 3 | US-08-860-635A-20  | Sequence 20, Appli  |
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| 0.9 | 4670  | 3 | US-08-717-294-41   | Sequence 41, Appli  |
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| 0.9 | 5077  | 4 | US-09-480-921B-24  | Sequence 24, Appli  |
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| 0.9 | 5086  | 4 | US-09-233-527-7    | Sequence 7, Appli   |

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| c 102 | 17 | 0.9 | 5086    | 5 | PCT-US93-06251-2  | Sequence 2, Appli  | c 175 | 0.9 | 536  | 4 | US-09-397-787-67   | Sequence 67, Appl  |
| c 103 | 17 | 0.9 | 5094    | 4 | US-09-234-186-7   | Sequence 7, Appli  | c 176 | 0.9 | 538  | 4 | US-09-020-956-105  | Sequence 105, App  |
| c 104 | 17 | 0.9 | 5104    | 6 | 5506344-1         | Patent No. 5506344 | c 177 | 0.9 | 538  | 4 | US-09-030-607-105  | Sequence 105, App  |
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| 107   | 17 | 0.9 | 7881    | 4 | US-09-184-445-1   | Sequence 1, Appli  | c 180 | 0.9 | 538  | 4 | US-09-352-616A-105 | Sequence 105, App  |
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| 109   | 17 | 0.9 | 8396    | 4 | US-09-328-174A-1  | Sequence 1, Appli  | 182   | 0.9 | 541  | 4 | US-09-152-060-37   | Sequence 37, Appl  |
| 110   | 17 | 0.9 | 8409    | 4 | US-09-167-681-37  | Sequence 37, Appl  | 183   | 0.9 | 550  | 4 | US-09-221-017B-740 | Sequence 740, App  |
| 111   | 17 | 0.9 | 8967    | 1 | US-08-366-851A-1  | Sequence 1, Appli  | 184   | 0.9 | 574  | 4 | US-09-605-785-356  | Sequence 356, App  |
| 112   | 17 | 0.9 | 9009    | 1 | US-07-864-004B-3  | Sequence 3, Appli  | c 185 | 0.9 | 574  | 4 | US-09-439-313-356  | Sequence 356, App  |
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| 117   | 17 | 0.9 | 9009    | 4 | US-09-037-601-1   | Sequence 1, Appli  | 190   | 0.9 | 590  | 2 | US-08-485-778-44   | Sequence 44, Appl  |
| 118   | 17 | 0.9 | 9009    | 4 | US-09-315-179-1   | Sequence 1, Appli  | c 191 | 0.9 | 590  | 4 | US-09-026-601-41   | Sequence 41, Appl  |
| 119   | 17 | 0.9 | 9009    | 4 | US-09-523-656-1   | Sequence 1, Appli  | 192   | 0.9 | 591  | 4 | US-09-247-155-59   | Sequence 59, Appl  |
| 120   | 17 | 0.9 | 9009    | 5 | PCT-US93-03273-3  | Sequence 3, Appli  | c 193 | 0.9 | 661  | 4 | US-09-328-111-69   | Sequence 69, Appl  |
| 121   | 17 | 0.9 | 9009    | 5 | PCT-US94-13200-1  | Sequence 1, Appli  | c 194 | 0.9 | 673  | 6 | 5242798-4          | Patent No. 5242798 |
| 122   | 17 | 0.9 | 9354    | 1 | US-08-683-839B-2  | Sequence 2, Appli  | c 195 | 0.9 | 680  | 4 | US-09-227-357-144  | Sequence 144, App  |
| c 123 | 17 | 0.9 | 11770   | 4 | US-08-961-527-172 | Sequence 172, App  | c 196 | 0.9 | 686  | 4 | US-09-372-422A-45  | Sequence 45, Appl  |
| c 124 | 17 | 0.9 | 4403765 | 4 | US-09-103-840A-2  | Sequence 2, Appli  | 197   | 0.9 | 700  | 4 | US-09-152-060-26   | Sequence 26, Appl  |
| c 125 | 16 | 0.9 | 30      | 3 | US-08-771-781-2   | Sequence 2, Appli  | 198   | 0.9 | 725  | 4 | US-09-352-990-19   | Sequence 19, Appl  |
| c 126 | 16 | 0.9 | 30      | 4 | US-09-244-794A-16 | Sequence 16, Appl  | 199   | 0.9 | 738  | 4 | US-09-392-184-13   | Sequence 13, Appl  |
| c 127 | 16 | 0.9 | 30      | 4 | US-09-247-190-16  | Sequence 16, Appl  | c 200 | 0.9 | 749  | 4 | US-09-469-242-5    | Sequence 5, Appli  |
| c 128 | 16 | 0.9 | 30      | 4 | US-09-472-146A-6  | Sequence 6, Appli  | 201   | 0.9 | 756  | 2 | US-08-530-165-1    | Sequence 1, Appli  |
| c 129 | 16 | 0.9 | 33      | 4 | US-09-244-794A-15 | Sequence 15, Appli | 202   | 0.9 | 767  | 1 | US-08-184-604-1    | Sequence 1, Appli  |
| c 130 | 16 | 0.9 | 33      | 4 | US-09-247-190-15  | Sequence 15, Appli | c 203 | 0.9 | 776  | 4 | US-09-370-838-63   | Sequence 63, Appl  |
| c 131 | 16 | 0.9 | 36      | 4 | US-09-244-794A-14 | Sequence 14, Appli | 204   | 0.9 | 804  | 1 | US-08-411-635-1    | Sequence 1, Appli  |
| c 132 | 16 | 0.9 | 36      | 4 | US-09-247-190-14  | Sequence 14, Appli | 205   | 0.9 | 804  | 1 | US-08-845-011-1    | Sequence 1, Appli  |
| c 133 | 16 | 0.9 | 37      | 5 | PCT-US94-05407-14 | Sequence 14, Appli | 206   | 0.9 | 811  | 4 | PCT-US94-10644-1   | Sequence 1, Appli  |
| c 134 | 16 | 0.9 | 40      | 4 | US-09-306-290-39  | Sequence 39, Appli | 207   | 0.9 | 842  | 1 | US-09-230-670C-4   | Sequence 4, Appli  |
| c 135 | 16 | 0.9 | 42      | 4 | US-09-244-794A-12 | Sequence 12, Appli | 208   | 0.9 | 859  | 4 | US-08-208-181A-23  | Sequence 23, Appl  |
| c 136 | 16 | 0.9 | 42      | 4 | US-09-244-794A-13 | Sequence 13, Appli | 209   | 0.9 | 859  | 4 | US-09-247-373B-47  | Sequence 47, Appl  |
| c 137 | 16 | 0.9 | 42      | 4 | US-09-247-190-13  | Sequence 12, Appli | c 210 | 0.9 | 864  | 4 | US-09-422-869-17   | Sequence 17, Appl  |
| c 138 | 16 | 0.9 | 50      | 1 | US-08-259-612A-7  | Sequence 7, Appli  | 211   | 0.9 | 866  | 6 | 5185431-3          | Patent No. 5185431 |
| c 139 | 16 | 0.9 | 50      | 1 | US-08-644-291-7   | Sequence 7, Appli  | 212   | 0.9 | 876  | 2 | US-08-937-972-2    | Sequence 2, Appli  |
| c 140 | 16 | 0.9 | 75      | 4 | US-09-605-192-2   | Sequence 2, Appli  | 213   | 0.9 | 913  | 3 | US-08-651-136C-13  | Sequence 13, Appl  |
| c 141 | 16 | 0.9 | 97      | 1 | US-08-120-827-87  | Sequence 87, Appli | 214   | 0.9 | 913  | 4 | US-09-229-911A-13  | Sequence 13, Appl  |
| c 142 | 16 | 0.9 | 97      | 1 | US-08-478-675-87  | Sequence 87, Appli | 215   | 0.9 | 917  | 2 | US-08-951-822-1    | Sequence 1, Appli  |
| c 143 | 16 | 0.9 | 97      | 3 | US-08-952-664-15  | Sequence 15, Appli | 216   | 0.9 | 917  | 4 | US-09-368-951-1    | Sequence 1, Appli  |
| c 144 | 16 | 0.9 | 97      | 4 | US-09-487-874-15  | Sequence 15, Appli | c 217 | 0.9 | 943  | 1 | US-07-807-043B-12  | Sequence 12, Appl  |
| c 145 | 16 | 0.9 | 195     | 4 | US-09-189-060B-50 | Sequence 50, Appli | c 218 | 0.9 | 943  | 1 | US-08-299-849B-12  | Sequence 12, Appl  |
| c 146 | 16 | 0.9 | 199     | 1 | US-08-330-108-9   | Sequence 9, Appli  | c 219 | 0.9 | 943  | 2 | US-08-142-368A-12  | Sequence 12, Appl  |
| c 147 | 16 | 0.9 | 199     | 5 | PCT-US92-10087-9  | Sequence 9, Appli  | c 220 | 0.9 | 943  | 3 | US-08-967-727-12   | Sequence 12, Appl  |
| c 148 | 16 | 0.9 | 279     | 4 | US-09-040-984-43  | Sequence 43, Appli | c 221 | 0.9 | 943  | 4 | US-08-037-230D-12  | Sequence 12, Appl  |
| c 149 | 16 | 0.9 | 279     | 4 | US-09-123-912-43  | Sequence 43, Appli | c 222 | 0.9 | 947  | 4 | US-09-173-043-24   | Sequence 24, Appl  |
| c 150 | 16 | 0.9 | 279     | 4 | US-09-643-597-43  | Sequence 43, Appli | c 223 | 0.9 | 974  | 3 | US-08-675-885-3    | Sequence 3, Appli  |
| c 151 | 16 | 0.9 | 308     | 4 | US-09-172-108-42  | Sequence 42, Appli | c 224 | 0.9 | 991  | 3 | US-08-726-807B-2   | Sequence 2, Appli  |
| c 152 | 16 | 0.9 | 309     | 3 | US-08-581-148C-2  | Sequence 2, Appli  | c 225 | 0.9 | 991  | 3 | US-09-258-367-2    | Sequence 2, Appli  |
| c 153 | 16 | 0.9 | 369     | 4 | US-09-643-597-148 | Sequence 148, App  | c 226 | 0.9 | 991  | 4 | US-09-546-550-2    | Sequence 2, Appli  |
| c 154 | 16 | 0.9 | 395     | 4 | US-09-195-106-21  | Sequence 21, Appli | c 227 | 0.9 | 991  | 4 | US-09-431-41A-2    | Sequence 2, Appli  |
| c 155 | 16 | 0.9 | 395     | 4 | US-09-370-838-164 | Sequence 164, App  | c 228 | 0.9 | 991  | 4 | US-09-225-670-2    | Sequence 2, Appli  |
| c 156 | 16 | 0.9 | 420     | 4 | US-09-040-984-65  | Sequence 65, Appli | c 229 | 0.9 | 991  | 4 | US-09-431-349C-2   | Sequence 2, Appli  |
| c 157 | 16 | 0.9 | 420     | 4 | US-09-123-912-65  | Sequence 65, Appli | 1002  | 0.9 | 1002 | 4 | US-08-271-948-1    | Sequence 1, Appli  |
| c 158 | 16 | 0.9 | 420     | 4 | US-09-643-597-65  | Sequence 65, Appli | c 230 | 0.9 | 1002 | 5 | PCT-US95-08534-1   | Sequence 1, Appli  |
| c 159 | 16 | 0.9 | 433     | 4 | US-09-040-984-58  | Sequence 58, Appli | c 231 | 0.9 | 1019 | 4 | US-09-288-143-33   | Sequence 33, Appl  |
| c 160 | 16 | 0.9 | 433     | 4 | US-09-123-912-58  | Sequence 58, Appli | c 232 | 0.9 | 1023 | 4 | US-08-961-527-290  | Sequence 290, App  |
| c 161 | 16 | 0.9 | 433     | 4 | US-09-643-597-58  | Sequence 58, Appli | c 233 | 0.9 | 1032 | 4 | US-09-227-357-134  | Sequence 134, App  |
| c 162 | 16 | 0.9 | 443     | 4 | US-09-149-476-60  | Sequence 60, Appli | c 234 | 0.9 | 1034 | 4 | US-09-227-357-15   | Sequence 15, Appl  |
| c 163 | 16 | 0.9 | 451     | 4 | US-09-404-879A-51 | Sequence 51, Appli | c 235 | 0.9 | 1034 | 1 | US-08-152-485-1    | Sequence 1, Appli  |
| c 164 | 16 | 0.9 | 464     | 4 | US-09-302-769-37  | Sequence 37, Appli | 236   | 0.9 | 1054 | 1 | US-08-463-089-1    | Sequence 1, Appli  |
| c 165 | 16 | 0.9 | 474     | 4 | US-08-906-156A-32 | Sequence 32, Appli | c 237 | 0.9 | 1054 | 1 | US-08-461-360A-1   | Sequence 1, Appli  |
| c 166 | 16 | 0.9 | 481     | 4 | US-09-370-838-89  | Sequence 89, Appli | c 238 | 0.9 | 1054 | 1 | US-08-461-359-1    | Sequence 1, Appli  |
| c 167 | 16 | 0.9 | 491     | 4 | US-09-370-838-90  | Sequence 90, Appli | c 239 | 0.9 | 1054 | 1 | PCT-US94-12904-1   | Sequence 1, Appli  |
| c 168 | 16 | 0.9 | 493     | 4 | US-09-280-116-166 | Sequence 166, App  | c 240 | 0.9 | 1054 | 5 | US-08-911-423-1    | Sequence 1, Appli  |
| c 169 | 16 | 0.9 | 499     | 4 | US-09-020-956-73  | Sequence 73, Appli | 241   | 0.9 | 1073 | 3 | US-08-555-723B-1   | Sequence 1, Appli  |
| c 170 | 16 | 0.9 | 499     | 4 | US-09-030-607-73  | Sequence 73, Appli | c 242 | 0.9 | 1078 | 2 | US-09-123-465-1    | Sequence 1, Appli  |
| c 171 | 16 | 0.9 | 499     | 4 | US-09-605-785-73  | Sequence 73, Appli | c 243 | 0.9 | 1078 | 3 | US-09-596-541-1    | Sequence 1, Appli  |
| c 172 | 16 | 0.9 | 499     | 4 | US-09-439-313-73  | Sequence 73, Appli | c 244 | 0.9 | 1085 | 4 | US-08-726-807B-8   | Sequence 8, Appli  |
| c 173 | 16 | 0.9 | 499     | 4 | US-09-352-616A-73 | Sequence 73, Appli | c 245 | 0.9 | 1102 | 3 | US-09-258-367-8    | Sequence 8, Appli  |



|       |    |     |      |   |                   |                    |       |    |     |      |   |                    |                    |
|-------|----|-----|------|---|-------------------|--------------------|-------|----|-----|------|---|--------------------|--------------------|
| c 247 | 16 | 0.9 | 1102 | 4 | US-09-546-550-8   | Sequence 8, Appli  | c 320 | 16 | 0.9 | 1953 | 2 | US-08-436-054-3    | Sequence 3, Appli  |
| c 248 | 16 | 0.9 | 1102 | 4 | US-09-431-414-8   | Sequence 8, Appli  | c 321 | 16 | 0.9 | 1953 | 5 | PCT-US95-08812-3   | Sequence 3, Appli  |
| c 249 | 16 | 0.9 | 1102 | 4 | US-09-225-670-8   | Sequence 8, Appli  | c 322 | 16 | 0.9 | 1962 | 1 | US-08-399-676-1    | Sequence 1, Appli  |
| c 250 | 16 | 0.9 | 1102 | 4 | US-09-431-3490-8  | Sequence 8, Appli  | c 323 | 16 | 0.9 | 1968 | 1 | US-08-321-071A-17  | Sequence 17, Appli |
| c 251 | 16 | 0.9 | 1110 | 4 | US-09-596-541-3   | Sequence 5, Appli  | c 324 | 16 | 0.9 | 1969 | 1 | US-07-937-609-28   | Sequence 28, Appli |
| c 252 | 16 | 0.9 | 1113 | 2 | US-08-907-492A-3  | Sequence 3, Appli  | c 325 | 16 | 0.9 | 1969 | 4 | US-08-029-170-28   | Sequence 28, Appli |
| c 253 | 16 | 0.9 | 1113 | 4 | US-09-596-541-3   | Sequence 3, Appli  | c 326 | 16 | 0.9 | 1981 | 4 | US-09-149-476-156  | Sequence 156, App  |
| c 254 | 16 | 0.9 | 1115 | 1 | US-08-190-802A-19 | Sequence 3, Appli  | c 327 | 16 | 0.9 | 1984 | 4 | US-09-382-256-1    | Sequence 1, Appli  |
| c 255 | 16 | 0.9 | 1115 | 4 | US-08-477-346-19  | Sequence 19, Appli | c 328 | 16 | 0.9 | 1984 | 4 | US-09-385-115-1    | Sequence 1, Appli  |
| c 256 | 16 | 0.9 | 1115 | 4 | US-08-473-089-19  | Sequence 19, Appli | c 329 | 16 | 0.9 | 1984 | 4 | US-08-436-465-1    | Sequence 1, Appli  |
| c 257 | 16 | 0.9 | 1115 | 4 | US-08-487-072A-19 | Sequence 19, Appli | c 330 | 16 | 0.9 | 1984 | 4 | US-09-679-187-1    | Sequence 7, Appli  |
| c 258 | 16 | 0.9 | 1132 | 2 | US-08-928-692-50  | Sequence 19, Appli | c 331 | 16 | 0.9 | 2001 | 4 | US-09-422-869-7    | Sequence 1, Appli  |
| c 259 | 16 | 0.9 | 1132 | 4 | US-09-339-972-50  | Sequence 50, Appli | c 332 | 16 | 0.9 | 2030 | 1 | US-08-530-950-1    | Sequence 1, Appli  |
| c 260 | 16 | 0.9 | 1153 | 4 | US-09-372-448A-5  | Sequence 50, Appli | c 333 | 16 | 0.9 | 2030 | 3 | US-08-888-429A-1   | Sequence 1, Appli  |
| c 261 | 16 | 0.9 | 1173 | 6 | 5242798-2         | Patent No. 5242798 | c 334 | 16 | 0.9 | 2030 | 4 | US-09-149-879-1    | Sequence 1, Appli  |
| c 262 | 16 | 0.9 | 1191 | 4 | US-09-181-336-18  | Sequence 18, Appli | c 335 | 16 | 0.9 | 2104 | 1 | US-08-592-126-96   | Sequence 96, Appli |
| c 263 | 16 | 0.9 | 1218 | 3 | US-09-154-874-7   | Sequence 7, Appli  | c 336 | 16 | 0.9 | 2106 | 3 | US-08-613-009A-4   | Sequence 4, Appli  |
| c 264 | 16 | 0.9 | 1232 | 4 | US-09-392-184-4   | Sequence 4, Appli  | c 337 | 16 | 0.9 | 2106 | 4 | US-08-778-570B-4   | Sequence 4, Appli  |
| c 265 | 16 | 0.9 | 1263 | 4 | US-09-336-536-8   | Sequence 8, Appli  | c 338 | 16 | 0.9 | 2106 | 4 | US-09-059-584-4    | Sequence 4, Appli  |
| c 266 | 16 | 0.9 | 1265 | 4 | US-09-964-850-3   | Sequence 8, Appli  | c 339 | 16 | 0.9 | 2130 | 4 | US-09-056-105-1    | Sequence 1, Appli  |
| c 267 | 16 | 0.9 | 1301 | 1 | US-08-431-080-1   | Sequence 1, Appli  | c 340 | 16 | 0.9 | 2152 | 1 | US-07-779-890-1    | Sequence 1, Appli  |
| c 268 | 16 | 0.9 | 1301 | 2 | US-08-431-080-4   | Sequence 4, Appli  | c 341 | 16 | 0.9 | 2152 | 1 | US-07-779-890-1    | Sequence 1, Appli  |
| c 269 | 16 | 0.9 | 1301 | 2 | US-08-938-534-1   | Sequence 4, Appli  | c 342 | 16 | 0.9 | 2152 | 5 | PCT-US93-05840-1   | Sequence 5, Appli  |
| c 270 | 16 | 0.9 | 1301 | 2 | US-08-938-534-4   | Sequence 4, Appli  | c 343 | 16 | 0.9 | 2162 | 3 | US-08-948-705-5    | Sequence 9, Appli  |
| c 271 | 16 | 0.9 | 1301 | 4 | US-09-345-294-1   | Sequence 1, Appli  | c 344 | 16 | 0.9 | 2204 | 4 | US-09-422-869-9    | Sequence 4, Appli  |
| c 272 | 16 | 0.9 | 1301 | 4 | US-09-345-294-4   | Sequence 4, Appli  | c 345 | 16 | 0.9 | 2204 | 4 | US-08-948-705-4    | Sequence 4, Appli  |
| c 273 | 16 | 0.9 | 1339 | 3 | US-08-468-856B-3  | Sequence 3, Appli  | c 346 | 16 | 0.9 | 2236 | 3 | US-08-613-009A-3   | Sequence 3, Appli  |
| c 274 | 16 | 0.9 | 1351 | 2 | US-08-468-856B-3  | Sequence 13, Appli | c 347 | 16 | 0.9 | 2247 | 4 | US-08-778-570B-3   | Sequence 3, Appli  |
| c 275 | 16 | 0.9 | 1351 | 2 | US-08-846-338-13  | Sequence 13, Appli | c 348 | 16 | 0.9 | 2247 | 4 | US-09-059-584-3    | Sequence 1, Appli  |
| c 276 | 16 | 0.9 | 1365 | 4 | US-08-981-234B-1  | Sequence 1, Appli  | c 349 | 16 | 0.9 | 2277 | 3 | US-09-358-685-1    | Sequence 11, Appli |
| c 277 | 16 | 0.9 | 1408 | 1 | US-08-447-534-3   | Sequence 3, Appli  | c 350 | 16 | 0.9 | 2288 | 4 | US-09-026-001A-13  | Sequence 8, Appli  |
| c 278 | 16 | 0.9 | 1408 | 1 | US-08-448-160-3   | Sequence 3, Appli  | c 351 | 16 | 0.9 | 2289 | 3 | US-08-948-705-8    | Sequence 6, Appli  |
| c 279 | 16 | 0.9 | 1408 | 1 | US-08-448-160-3   | Sequence 3, Appli  | c 352 | 16 | 0.9 | 2295 | 2 | US-08-842-842-6    | Sequence 1, Appli  |
| c 280 | 16 | 0.9 | 1419 | 2 | US-08-216-894-9   | Sequence 9, Appli  | c 353 | 16 | 0.9 | 2295 | 4 | US-09-052-521C-1   | Sequence 5, Appli  |
| c 281 | 16 | 0.9 | 1419 | 2 | US-08-216-894-9   | Sequence 9, Appli  | c 354 | 16 | 0.9 | 2297 | 4 | US-09-422-869-5    | Sequence 1, Appli  |
| c 282 | 16 | 0.9 | 1460 | 6 | 5225537-3         | Patent No. 5225537 | c 355 | 16 | 0.9 | 2298 | 3 | US-08-772-440-1    | Sequence 1, Appli  |
| c 283 | 16 | 0.9 | 1477 | 4 | US-09-257-541-1   | Sequence 1, Appli  | c 356 | 16 | 0.9 | 2303 | 3 | US-08-836-567-1    | Sequence 13, Appli |
| c 284 | 16 | 0.9 | 1519 | 3 | US-08-913-462-38  | Sequence 38, Appli | c 357 | 16 | 0.9 | 2309 | 4 | US-09-026-001A-13  | Sequence 1, Appli  |
| c 285 | 16 | 0.9 | 1519 | 2 | US-08-417-174-1   | Sequence 1, Appli  | c 358 | 16 | 0.9 | 2312 | 1 | US-08-102-942A-1   | Sequence 1, Appli  |
| c 286 | 16 | 0.9 | 1559 | 2 | US-08-231-565A-1  | Sequence 1, Appli  | c 359 | 16 | 0.9 | 2312 | 4 | US-09-037-179B-1   | Sequence 9, Appli  |
| c 287 | 16 | 0.9 | 1559 | 2 | US-09-007-961-1   | Sequence 1, Appli  | c 360 | 16 | 0.9 | 2312 | 4 | US-09-026-001A-9   | Sequence 9, Appli  |
| c 288 | 16 | 0.9 | 1559 | 4 | US-09-267-439-1   | Sequence 1, Appli  | c 361 | 16 | 0.9 | 2335 | 4 | US-09-026-001A-17  | Sequence 17, Appli |
| c 289 | 16 | 0.9 | 1576 | 5 | PCT-US95-15428-19 | Sequence 19, Appli | c 362 | 16 | 0.9 | 2396 | 4 | US-09-484-970B-105 | Sequence 105, App  |
| c 290 | 16 | 0.9 | 1630 | 3 | US-08-468-856B-2  | Sequence 2, Appli  | c 363 | 16 | 0.9 | 2455 | 4 | US-09-422-869-13   | Sequence 13, Appli |
| c 291 | 16 | 0.9 | 1630 | 3 | US-08-468-859A-2  | Sequence 2, Appli  | c 364 | 16 | 0.9 | 2511 | 4 | US-09-422-869-19   | Sequence 19, Appli |
| c 292 | 16 | 0.9 | 1634 | 3 | US-08-991-426-3   | Sequence 3, Appli  | c 365 | 16 | 0.9 | 2516 | 4 | US-09-422-869-11   | Sequence 11, Appli |
| c 293 | 16 | 0.9 | 1654 | 3 | US-09-143-470-3   | Sequence 3, Appli  | c 366 | 16 | 0.9 | 2522 | 3 | US-09-062-416-13   | Sequence 13, Appli |
| c 294 | 16 | 0.9 | 1680 | 1 | US-08-234-783-3   | Sequence 3, Appli  | c 367 | 16 | 0.9 | 2531 | 1 | US-08-299-849B-13  | Sequence 13, Appli |
| c 295 | 16 | 0.9 | 1680 | 1 | US-08-456-907-3   | Sequence 3, Appli  | c 368 | 16 | 0.9 | 2531 | 2 | US-08-142-368A-13  | Sequence 13, Appli |
| c 296 | 16 | 0.9 | 1680 | 5 | PCT-US95-05523-3  | Sequence 3, Appli  | c 369 | 16 | 0.9 | 2531 | 2 | US-08-142-368A-14  | Sequence 14, Appli |
| c 297 | 16 | 0.9 | 1695 | 2 | US-08-216-894-1   | Sequence 1, Appli  | c 370 | 16 | 0.9 | 2531 | 3 | US-08-967-727-13   | Sequence 13, Appli |
| c 298 | 16 | 0.9 | 1695 | 4 | US-09-115-746-1   | Sequence 1, Appli  | c 371 | 16 | 0.9 | 2531 | 3 | US-08-967-727-14   | Sequence 14, Appli |
| c 299 | 16 | 0.9 | 1713 | 4 | US-09-181-336-12  | Sequence 12, Appli | c 372 | 16 | 0.9 | 2531 | 4 | US-08-037-230B-13  | Sequence 13, Appli |
| c 300 | 16 | 0.9 | 1723 | 4 | US-09-181-336-14  | Sequence 14, Appli | c 373 | 16 | 0.9 | 2531 | 4 | US-08-037-230B-14  | Sequence 14, Appli |
| c 301 | 16 | 0.9 | 1743 | 3 | US-09-032-365A-18 | Sequence 18, Appli | c 374 | 16 | 0.9 | 2581 | 2 | US-09-013-634-1    | Sequence 13, Appli |
| c 302 | 16 | 0.9 | 1772 | 2 | US-08-960-022-13  | Sequence 11, Appli | c 375 | 16 | 0.9 | 2601 | 1 | US-08-121-7130-53  | Sequence 53, Appli |
| c 303 | 16 | 0.9 | 1773 | 4 | US-08-906-156A-11 | Sequence 11, Appli | c 376 | 16 | 0.9 | 2601 | 1 | US-08-835-268-53   | Sequence 53, Appli |
| c 304 | 16 | 0.9 | 1795 | 4 | US-09-149-476-292 | Sequence 292, App  | c 377 | 16 | 0.9 | 2601 | 2 | US-09-060-610-53   | Sequence 53, Appli |
| c 305 | 16 | 0.9 | 1820 | 4 | US-09-026-001A-15 | Sequence 15, Appli | c 378 | 16 | 0.9 | 2601 | 3 | US-08-833-391-53   | Sequence 53, Appli |
| c 306 | 16 | 0.9 | 1849 | 1 | US-08-399-696-3   | Sequence 3, Appli  | c 379 | 16 | 0.9 | 2601 | 4 | US-09-060-610-53   | Sequence 53, Appli |
| c 307 | 16 | 0.9 | 1868 | 3 | US-08-392-367B-1  | Sequence 1, Appli  | c 380 | 16 | 0.9 | 2601 | 5 | PCT-US94-10151A-53 | Sequence 53, Appli |
| c 308 | 16 | 0.9 | 1868 | 3 | US-08-893-467A-1  | Sequence 1, Appli  | c 381 | 16 | 0.9 | 2601 | 4 | US-09-422-869-3    | Sequence 3, Appli  |
| c 309 | 16 | 0.9 | 1898 | 3 | US-08-063-552-12  | Sequence 12, Appli | c 382 | 16 | 0.9 | 2620 | 2 | US-08-942-819-1    | Sequence 5, Appli  |
| c 310 | 16 | 0.9 | 1901 | 4 | PCT-US93-05704-12 | Sequence 12, Appli | c 383 | 16 | 0.9 | 2624 | 2 | US-09-214-564A-5   | Sequence 1, Appli  |
| c 311 | 16 | 0.9 | 1901 | 4 | US-08-881-742-1   | Sequence 1, Appli  | c 384 | 16 | 0.9 | 2674 | 3 | US-09-817-180-1    | Sequence 11, Appli |
| c 312 | 16 | 0.9 | 1927 | 2 | US-09-040-799-1   | Sequence 9, Appli  | c 385 | 16 | 0.9 | 2674 | 4 | US-08-981-392-11   | Sequence 1, Appli  |
| c 313 | 16 | 0.9 | 1930 | 4 | US-09-724-864-9   | Sequence 7, Appli  | c 386 | 16 | 0.9 | 2692 | 4 | US-09-214-564A-1   | Sequence 2, Appli  |
| c 314 | 16 | 0.9 | 1932 | 2 | US-08-216-894-7   | Sequence 7, Appli  | c 387 | 16 | 0.9 | 2815 | 3 | US-09-257-703-2    | Sequence 1, Appli  |
| c 315 | 16 | 0.9 | 1932 | 2 | US-09-115-746-7   | Sequence 7, Appli  | c 388 | 16 | 0.9 | 2844 | 4 | US-08-981-392-4    | Sequence 1, Appli  |
| c 316 | 16 | 0.9 | 1941 | 2 | US-09-008-960-2   | Sequence 2, Appli  | c 389 | 16 | 0.9 | 2857 | 4 | US-08-182-728A-1   | Sequence 1, Appli  |
| c 317 | 16 | 0.9 | 1941 | 3 | US-09-368-240-2   | Sequence 2, Appli  | c 390 | 16 | 0.9 | 2863 | 4 | US-09-795-232-1    | Sequence 1, Appli  |
| c 318 | 16 | 0.9 | 1941 | 4 | US-09-458-702-2   | Sequence 2, Appli  | c 391 | 16 | 0.9 | 2863 | 4 | US-09-795-232-1    | Sequence 1, Appli  |
| c 319 | 16 | 0.9 | 1953 | 1 | US-08-436-044-3   | Sequence 3, Appli  | c 392 | 16 | 0.9 | 2885 | 4 | US-09-232-200-36   | Sequence 36, Appli |

|     |    |     |      |   |                    |                    |       |    |     |         |   |                    |                    |
|-----|----|-----|------|---|--------------------|--------------------|-------|----|-----|---------|---|--------------------|--------------------|
| 393 | 16 | 0.9 | 2885 | 4 | US-09-232-200-56   | Sequence 56, Appl  | 456   | 16 | 0.9 | 5948    | 2 | US-08-662-227-1    | Sequence 1, Appl   |
| 394 | 16 | 0.9 | 2885 | 4 | US-09-232-197-36   | Sequence 36, Appl  | 467   | 16 | 0.9 | 5948    | 4 | US-09-017-947-1    | Sequence 1, Appl   |
| 395 | 16 | 0.9 | 2885 | 4 | US-09-232-197-56   | Sequence 56, Appl  | 468   | 16 | 0.9 | 6671    | 1 | US-08-280-443-1    | Sequence 1, Appl   |
| 396 | 16 | 0.9 | 2885 | 4 | US-09-232-201-36   | Sequence 36, Appl  | 469   | 16 | 0.9 | 6671    | 1 | US-08-457-459-1    | Sequence 1, Appl   |
| 397 | 16 | 0.9 | 2885 | 4 | US-09-232-201-56   | Sequence 56, Appl  | 470   | 16 | 0.9 | 6671    | 1 | US-08-555-678-1    | Sequence 1, Appl   |
| 398 | 16 | 0.9 | 2899 | 4 | US-08-981-392-24   | Sequence 24, Appl  | 471   | 16 | 0.9 | 6671    | 5 | PCT-US95-02275-1   | Sequence 1, Appl   |
| 399 | 16 | 0.9 | 2904 | 4 | US-09-221-294-3    | Sequence 3, Appl   | 472   | 16 | 0.9 | 7498    | 2 | US-08-816-693A-1   | Sequence 1, Appl   |
| 400 | 16 | 0.9 | 2953 | 2 | US-08-859-201-1    | Sequence 1, Appl   | 473   | 16 | 0.9 | 7498    | 3 | US-08-885-291-1    | Sequence 1, Appl   |
| 401 | 16 | 0.9 | 2986 | 3 | US-09-062-416-1    | Sequence 1, Appl   | 474   | 16 | 0.9 | 7498    | 4 | US-09-496-672-1    | Sequence 1, Appl   |
| 402 | 16 | 0.9 | 3016 | 2 | US-08-344-155C-97  | Sequence 97, Appl  | 475   | 16 | 0.9 | 7610    | 4 | US-09-659-791A-12  | Sequence 12, Appl  |
| 403 | 16 | 0.9 | 3017 | 4 | US-09-009-490A-86  | Sequence 86, Appl  | 476   | 16 | 0.9 | 8257    | 4 | US-09-368-590-1    | Sequence 1, Appl   |
| 404 | 16 | 0.9 | 3018 | 1 | US-08-347-718B-3   | Sequence 3, Appl   | 477   | 16 | 0.9 | 8257    | 4 | US-09-484-970B-65  | Sequence 65, Appl  |
| 405 | 16 | 0.9 | 3018 | 3 | US-08-482-262-3    | Sequence 3, Appl   | 478   | 16 | 0.9 | 8266    | 4 | US-09-059-584-54   | Sequence 54, Appl  |
| 406 | 16 | 0.9 | 3024 | 6 | 5200183-1          | Patent No. 5200183 | 479   | 16 | 0.9 | 8453    | 4 | US-09-167-681-45   | Sequence 45, Appl  |
| 407 | 16 | 0.9 | 3024 | 6 | 5284931-1          | Patent No. 5284931 | 480   | 16 | 0.9 | 9934    | 4 | US-08-977-171-2    | Sequence 2, Appl   |
| 408 | 16 | 0.9 | 3138 | 1 | US-07-867-106-4    | Sequence 4, Appl   | c 480 | 16 | 0.9 | 11495   | 4 | US-09-056-105-9    | Sequence 9, Appl   |
| 409 | 16 | 0.9 | 3156 | 2 | US-08-887-518-1    | Sequence 1, Appl   | c 481 | 16 | 0.9 | 13011   | 2 | US-08-791-849A-14  | Sequence 14, Appl  |
| 410 | 16 | 0.9 | 3156 | 2 | US-09-023-321-1    | Sequence 1, Appl   | c 482 | 16 | 0.9 | 13977   | 4 | US-09-484-970B-60  | Sequence 60, Appl  |
| 411 | 16 | 0.9 | 3156 | 2 | US-09-032-475-1    | Sequence 1, Appl   | c 483 | 16 | 0.9 | 15297   | 4 | US-08-836-022A-10  | Sequence 3, Appl   |
| 412 | 16 | 0.9 | 3195 | 2 | US-08-951-648-5    | Sequence 5, Appl   | 484   | 16 | 0.9 | 19307   | 3 | US-09-427-048A-10  | Sequence 10, Appl  |
| 413 | 16 | 0.9 | 3195 | 2 | US-09-174-437-5    | Sequence 5, Appl   | 485   | 16 | 0.9 | 19307   | 3 | US-08-814-095-7    | Sequence 7, Appl   |
| 414 | 16 | 0.9 | 3364 | 2 | US-08-735-609-9    | Sequence 9, Appl   | 486   | 16 | 0.9 | 35060   | 3 | US-08-814-095-7    | Sequence 3, Appl   |
| 415 | 16 | 0.9 | 3364 | 2 | US-08-735-609-9    | Sequence 9, Appl   | 487   | 16 | 0.9 | 35060   | 3 | US-08-814-095-7    | Sequence 3, Appl   |
| 416 | 16 | 0.9 | 3364 | 2 | US-09-315-372-9    | Sequence 9, Appl   | 488   | 16 | 0.9 | 36651   | 4 | US-09-738-894A-3   | Sequence 3, Appl   |
| 417 | 16 | 0.9 | 3364 | 3 | US-09-244-752-9    | Sequence 9, Appl   | 489   | 16 | 0.9 | 38564   | 4 | US-09-734-673-3    | Sequence 3, Appl   |
| 418 | 16 | 0.9 | 3364 | 3 | US-09-245-437-9    | Sequence 9, Appl   | c 489 | 16 | 0.9 | 49136   | 4 | US-09-422-869-1    | Sequence 1, Appl   |
| 419 | 16 | 0.9 | 3364 | 4 | US-09-562-919-9    | Sequence 9, Appl   | c 490 | 16 | 0.9 | 49136   | 4 | US-09-422-869-1    | Sequence 1, Appl   |
| 420 | 16 | 0.9 | 3394 | 1 | US-08-159-784-4    | Sequence 9, Appl   | c 491 | 16 | 0.9 | 49272   | 1 | US-08-614-770A-1   | Sequence 1, Appl   |
| 421 | 16 | 0.9 | 3441 | 2 | US-08-742-753-1    | Sequence 1, Appl   | c 492 | 16 | 0.9 | 50341   | 1 | US-08-247-901C-1   | Sequence 1, Appl   |
| 422 | 16 | 0.9 | 3487 | 4 | US-09-453-702B-164 | Sequence 164, Appl | c 493 | 16 | 0.9 | 50341   | 2 | US-09-075-904-1    | Sequence 1, Appl   |
| 423 | 16 | 0.9 | 3494 | 4 | US-09-334-601-5    | Sequence 5, Appl   | 494   | 16 | 0.9 | 52297   | 4 | US-09-426-436-1    | Sequence 1, Appl   |
| 424 | 16 | 0.9 | 3871 | 2 | US-08-595-455B-3   | Sequence 3, Appl   | 495   | 16 | 0.9 | 52297   | 4 | US-08-705-557-1    | Sequence 1, Appl   |
| 425 | 16 | 0.9 | 3871 | 4 | US-09-069-781B-3   | Sequence 3, Appl   | 496   | 16 | 0.9 | 70000   | 4 | US-09-851-896-3    | Sequence 3, Appl   |
| 426 | 16 | 0.9 | 3871 | 4 | US-08-864-564A-3   | Sequence 3, Appl   | c 497 | 16 | 0.9 | 98844   | 4 | US-09-791-211-10   | Sequence 3, Appl   |
| 427 | 16 | 0.9 | 3871 | 4 | US-09-137-132-3    | Sequence 3, Appl   | 498   | 16 | 0.9 | 246240  | 2 | US-08-724-394A-20  | Sequence 20, Appl  |
| 428 | 16 | 0.9 | 3871 | 4 | US-08-864-564A-3   | Sequence 3, Appl   | 499   | 16 | 0.9 | 246240  | 2 | US-08-724-394A-21  | Sequence 21, Appl  |
| 429 | 16 | 0.9 | 3894 | 4 | US-09-511-625B-3   | Sequence 3, Appl   | 500   | 16 | 0.9 | 246240  | 2 | US-08-724-394A-22  | Sequence 22, Appl  |
| 430 | 16 | 0.9 | 4047 | 2 | US-08-612-734B-1   | Sequence 3, Appl   | 501   | 16 | 0.9 | 4403765 | 4 | US-09-103-840A-2   | Sequence 2, Appl   |
| 431 | 16 | 0.9 | 4168 | 3 | US-08-836-567-11   | Sequence 11, Appl  | 502   | 16 | 0.9 | 4411529 | 4 | US-09-103-840A-2   | Sequence 2, Appl   |
| 432 | 16 | 0.9 | 4190 | 3 | US-08-938-251A-2   | Sequence 2, Appl   | c 503 | 15 | 0.8 | 15      | 2 | US-08-292-620A-364 | Sequence 364, App  |
| 433 | 16 | 0.9 | 4204 | 2 | US-08-928-615-1    | Sequence 2, Appl   | c 504 | 15 | 0.8 | 15      | 2 | US-08-292-620A-365 | Sequence 365, App  |
| 434 | 16 | 0.9 | 4204 | 4 | US-09-056-105-6    | Sequence 6, Appl   | c 505 | 15 | 0.8 | 15      | 3 | US-08-832-021-23   | Sequence 23, Appl  |
| 435 | 16 | 0.9 | 4204 | 4 | US-09-166-448-1    | Sequence 6, Appl   | c 506 | 15 | 0.8 | 15      | 3 | US-09-071-845-364  | Sequence 364, App  |
| 436 | 16 | 0.9 | 4204 | 4 | US-09-348-933-1    | Sequence 1, Appl   | c 507 | 15 | 0.8 | 15      | 3 | US-09-071-845-365  | Sequence 365, App  |
| 437 | 16 | 0.9 | 4204 | 4 | US-09-697-884-1    | Sequence 1, Appl   | c 508 | 15 | 0.8 | 18      | 3 | US-09-256-465-35   | Sequence 35, Appl  |
| 438 | 16 | 0.9 | 4237 | 1 | US-07-844-298B-1   | Sequence 1, Appl   | c 509 | 15 | 0.8 | 18      | 4 | US-09-637-751A-7   | Sequence 7, Appl   |
| 439 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 510 | 15 | 0.8 | 20      | 4 | US-09-517-584A-85  | Sequence 85, Appl  |
| 440 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 511 | 15 | 0.8 | 31      | 1 | US-07-601-962A-5   | Sequence 5, Appl   |
| 441 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 512 | 15 | 0.8 | 36      | 3 | US-08-991-462A-6   | Sequence 6, Appl   |
| 442 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 513 | 15 | 0.8 | 36      | 3 | US-09-143-470-12   | Sequence 12, Appl  |
| 443 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 514 | 15 | 0.8 | 38      | 4 | US-09-325-554-10   | Sequence 10, Appl  |
| 444 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 515 | 15 | 0.8 | 38      | 4 | US-09-325-554-11   | Sequence 11, Appl  |
| 445 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 516 | 15 | 0.8 | 40      | 4 | US-08-688-514-14   | Sequence 14, Appl  |
| 446 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 517 | 15 | 0.8 | 40      | 4 | US-09-306-290-18   | Sequence 18, Appl  |
| 447 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 518 | 15 | 0.8 | 40      | 4 | US-09-306-290-19   | Sequence 19, Appl  |
| 448 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 519 | 15 | 0.8 | 40      | 4 | US-09-306-290-41   | Sequence 41, Appl  |
| 449 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 520 | 15 | 0.8 | 40      | 4 | US-08-970-166-11   | Sequence 11, Appl  |
| 450 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 521 | 15 | 0.8 | 42      | 4 | US-09-244-794A-11  | Sequence 11, Appl  |
| 451 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 522 | 15 | 0.8 | 42      | 4 | US-08-974-691-12   | Sequence 12, Appl  |
| 452 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 523 | 15 | 0.8 | 42      | 4 | US-09-247-190-11   | Sequence 11, Appl  |
| 453 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 524 | 15 | 0.8 | 42      | 4 | US-09-247-190-13   | Sequence 13, Appl  |
| 454 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 525 | 15 | 0.8 | 43      | 4 | US-09-306-290-10   | Sequence 10, Appl  |
| 455 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 526 | 15 | 0.8 | 70      | 4 | US-09-275-850-119  | Sequence 119, App  |
| 456 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 527 | 15 | 0.8 | 85      | 1 | US-08-120-827-97   | Sequence 97, Appl  |
| 457 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 528 | 15 | 0.8 | 85      | 1 | US-08-478-675-97   | Sequence 97, Appl  |
| 458 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 529 | 15 | 0.8 | 91      | 4 | US-09-568-816A-12  | Sequence 12, Appl  |
| 459 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 530 | 15 | 0.8 | 105     | 2 | US-08-735-381-2    | Sequence 2, Appl   |
| 460 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 531 | 15 | 0.8 | 105     | 3 | US-09-183-619-1    | Sequence 1, Appl   |
| 461 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 532 | 15 | 0.8 | 105     | 3 | US-09-201-674-2    | Sequence 2, Appl   |
| 462 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 533 | 15 | 0.8 | 109     | 1 | US-08-120-827-81   | Sequence 81, Appl  |
| 463 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 534 | 15 | 0.8 | 109     | 1 | US-08-478-675-81   | Sequence 81, Appl  |
| 464 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 535 | 15 | 0.8 | 115     | 1 | US-08-120-827-88   | Sequence 88, Appl  |
| 465 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 536 | 15 | 0.8 | 115     | 1 | US-08-478-675-88   | Sequence 88, Appl  |
| 466 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 537 | 15 | 0.8 | 150     | 4 | US-08-735-021-191  | Sequence 191, App  |
| 467 | 16 | 0.9 | 4237 | 1 | US-08-484-493-6    | Sequence 1, Appl   | c 538 | 15 | 0.8 | 153     | 6 | 5274075-5          | Patent No. 5274075 |

|     |    |     |     |   |                    |                    |     |    |     |     |   |                     |                    |
|-----|----|-----|-----|---|--------------------|--------------------|-----|----|-----|-----|---|---------------------|--------------------|
| 539 | 15 | 0.8 | 159 | 6 | 5486462-1          | Patent No. 5486462 | 612 | 15 | 0.8 | 469 | 4 | US-09-328-111-436   | Sequence 436, App  |
| 540 | 15 | 0.8 | 171 | 5 | PCT-US93-06251-62  | Sequence 62, Appl  | 613 | 15 | 0.8 | 473 | 4 | US-09-615-192A-184  | Sequence 184, App  |
| 541 | 15 | 0.8 | 183 | 5 | PCT-US93-06251-56  | Sequence 56, Appl  | 614 | 15 | 0.8 | 477 | 4 | US-09-227-357-129   | Sequence 129, App  |
| 542 | 15 | 0.8 | 199 | 1 | US-08-330-108-4    | Sequence 4, Appl   | 615 | 15 | 0.8 | 495 | 4 | US-09-105-542A-13   | Sequence 13, Appl  |
| 543 | 15 | 0.8 | 199 | 5 | PCT-US92-10087-4   | Sequence 4, Appl   | 616 | 15 | 0.8 | 496 | 4 | US-09-328-111-125   | Sequence 125, App  |
| 544 | 15 | 0.8 | 200 | 2 | US-08-454-557C-80  | Sequence 80, Appl  | 617 | 15 | 0.8 | 498 | 1 | US-07-885-970A-8    | Sequence 8, Appl   |
| 545 | 15 | 0.8 | 200 | 2 | US-08-340-436D-80  | Sequence 80, Appl  | 618 | 15 | 0.8 | 498 | 1 | US-08-298-687A-8    | Sequence 8, Appl   |
| 546 | 15 | 0.8 | 200 | 2 | US-08-450-673C-80  | Sequence 80, Appl  | 619 | 15 | 0.8 | 498 | 1 | US-08-530-797-7     | Sequence 7, Appl   |
| 547 | 15 | 0.8 | 200 | 5 | PCT-US95-17111A-80 | Sequence 80, Appl  | 620 | 15 | 0.8 | 498 | 1 | US-08-298-829-8     | Sequence 8, Appl   |
| 548 | 15 | 0.8 | 216 | 1 | US-07-973-321B-1   | Sequence 1, Appl   | 621 | 15 | 0.8 | 498 | 2 | US-08-787-335-7     | Sequence 7, Appl   |
| 549 | 15 | 0.8 | 216 | 1 | US-08-090-527A-1   | Sequence 1, Appl   | 622 | 15 | 0.8 | 507 | 1 | US-08-686-878A-22   | Sequence 22, Appl  |
| 550 | 15 | 0.8 | 222 | 6 | 5274075-1          | Patent No. 5274075 | 623 | 15 | 0.8 | 507 | 4 | US-09-175-928-22    | Sequence 22, Appl  |
| 551 | 15 | 0.8 | 225 | 1 | US-07-609-716-40   | Sequence 40, Appl  | 624 | 15 | 0.8 | 511 | 4 | US-09-404-879A-64   | Sequence 64, Appl  |
| 552 | 15 | 0.8 | 225 | 3 | US-08-475-411A-40  | Sequence 40, Appl  | 625 | 15 | 0.8 | 518 | 1 | US-08-485-284A-2    | Sequence 2, Appl   |
| 553 | 15 | 0.8 | 225 | 4 | US-08-478-029A-40  | Sequence 40, Appl  | 626 | 15 | 0.8 | 518 | 1 | US-09-221-017B-186  | Sequence 186, App  |
| 554 | 15 | 0.8 | 239 | 5 | PCT-US93-06251-50  | Sequence 50, Appl  | 627 | 15 | 0.8 | 527 | 4 | US-09-370-838-281   | Sequence 281, App  |
| 555 | 15 | 0.8 | 246 | 4 | US-09-276-531-58   | Sequence 58, Appl  | 628 | 15 | 0.8 | 529 | 3 | US-08-545-809A-44   | Sequence 44, Appl  |
| 556 | 15 | 0.8 | 257 | 4 | US-09-040-984-48   | Sequence 48, Appl  | 629 | 15 | 0.8 | 530 | 2 | US-08-346-429-5     | Sequence 5, Appl   |
| 557 | 15 | 0.8 | 257 | 4 | US-09-123-912-48   | Sequence 48, Appl  | 630 | 15 | 0.8 | 536 | 1 | US-08-329-704-1     | Sequence 1, Appl   |
| 558 | 15 | 0.8 | 257 | 4 | US-09-643-597-48   | Sequence 48, Appl  | 631 | 15 | 0.8 | 536 | 2 | US-08-472-604-1     | Sequence 1, Appl   |
| 559 | 15 | 0.8 | 262 | 4 | US-09-117-121-21   | Sequence 21, Appl  | 632 | 15 | 0.8 | 536 | 2 | US-08-486-117-1     | Sequence 1, Appl   |
| 560 | 15 | 0.8 | 275 | 1 | US-08-215-084A-2   | Sequence 2, Appl   | 633 | 15 | 0.8 | 536 | 4 | US-08-477-537-1     | Sequence 1, Appl   |
| 561 | 15 | 0.8 | 275 | 1 | US-08-463-212-2    | Sequence 2, Appl   | 634 | 15 | 0.8 | 546 | 4 | US-09-643-597-129   | Sequence 129, App  |
| 562 | 15 | 0.8 | 275 | 1 | US-08-463-211-2    | Sequence 2, Appl   | 635 | 15 | 0.8 | 548 | 4 | US-09-036-355A-1    | Sequence 1, Appl   |
| 563 | 15 | 0.8 | 284 | 4 | US-09-040-984-80   | Sequence 80, Appl  | 636 | 15 | 0.8 | 559 | 4 | US-09-280-116-5     | Sequence 5, Appl   |
| 564 | 15 | 0.8 | 284 | 4 | US-09-123-912-80   | Sequence 80, Appl  | 637 | 15 | 0.8 | 566 | 4 | US-09-105-542A-1    | Sequence 1, Appl   |
| 565 | 15 | 0.8 | 284 | 4 | US-09-643-597-80   | Sequence 80, Appl  | 638 | 15 | 0.8 | 570 | 2 | US-08-633-682-1     | Sequence 1, Appl   |
| 566 | 15 | 0.8 | 285 | 2 | US-08-630-822A-85  | Sequence 85, Appl  | 639 | 15 | 0.8 | 570 | 3 | US-08-936-772-1     | Sequence 1, Appl   |
| 567 | 15 | 0.8 | 285 | 2 | US-09-005-069-85   | Sequence 85, Appl  | 640 | 15 | 0.8 | 570 | 4 | US-09-395-918-1     | Sequence 1, Appl   |
| 568 | 15 | 0.8 | 285 | 4 | US-09-171-156A-34  | Sequence 34, Appl  | 641 | 15 | 0.8 | 570 | 4 | US-09-385-982-124   | Sequence 124, App  |
| 569 | 15 | 0.8 | 297 | 1 | US-08-244-626-9    | Sequence 9, Appl   | 642 | 15 | 0.8 | 572 | 1 | US-09-328-111-644   | Sequence 644, App  |
| 570 | 15 | 0.8 | 298 | 4 | US-09-060-756-78   | Sequence 78, Appl  | 643 | 15 | 0.8 | 591 | 1 | US-07-973-321B-3    | Sequence 3, Appl   |
| 571 | 15 | 0.8 | 302 | 4 | US-09-608-785-255  | Sequence 255, App  | 644 | 15 | 0.8 | 591 | 1 | US-08-090-527A-3    | Sequence 3, Appl   |
| 572 | 15 | 0.8 | 302 | 4 | US-09-439-313-255  | Sequence 255, App  | 645 | 15 | 0.8 | 593 | 4 | US-09-385-982-132   | Sequence 132, App  |
| 573 | 15 | 0.8 | 302 | 4 | US-09-352-616A-255 | Sequence 255, App  | 646 | 15 | 0.8 | 594 | 1 | US-08-289-458-1     | Sequence 1, Appl   |
| 574 | 15 | 0.8 | 302 | 4 | US-09-232-149A-255 | Sequence 255, App  | 647 | 15 | 0.8 | 594 | 2 | US-08-761-549-1     | Sequence 1, Appl   |
| 575 | 15 | 0.8 | 309 | 1 | US-08-086-410-24   | Sequence 24, Appl  | 648 | 15 | 0.8 | 594 | 4 | US-09-127-646-1     | Sequence 1, Appl   |
| 576 | 15 | 0.8 | 315 | 4 | US-09-040-984-1    | Sequence 1, Appl   | 649 | 15 | 0.8 | 595 | 4 | US-09-171-156A-52   | Sequence 52, Appl  |
| 577 | 15 | 0.8 | 315 | 4 | US-09-123-912-1    | Sequence 1, Appl   | 650 | 15 | 0.8 | 595 | 4 | US-09-171-156A-54   | Sequence 54, Appl  |
| 578 | 15 | 0.8 | 315 | 4 | US-09-643-597-1    | Sequence 1, Appl   | 651 | 15 | 0.8 | 603 | 4 | US-08-998-416-1152  | Sequence 1152, App |
| 579 | 15 | 0.8 | 326 | 4 | US-09-629-645A-17  | Sequence 17, Appl  | 652 | 15 | 0.8 | 603 | 4 | US-09-342-653-3     | Sequence 3, Appl   |
| 580 | 15 | 0.8 | 328 | 4 | US-09-280-116-2    | Sequence 2, Appl   | 653 | 15 | 0.8 | 604 | 4 | US-09-342-653-3     | Sequence 3, Appl   |
| 581 | 15 | 0.8 | 332 | 4 | US-08-991-789A-153 | Sequence 153, App  | 654 | 15 | 0.8 | 614 | 4 | US-09-149-476-121   | Sequence 121, App  |
| 582 | 15 | 0.8 | 332 | 4 | US-09-062-451-153  | Sequence 153, App  | 655 | 15 | 0.8 | 614 | 4 | US-09-844-525A-12   | Sequence 12, App   |
| 583 | 15 | 0.8 | 332 | 4 | US-09-598-326-153  | Sequence 153, App  | 656 | 15 | 0.8 | 614 | 4 | US-09-105-542A-2    | Sequence 2, Appl   |
| 584 | 15 | 0.8 | 336 | 4 | US-09-060-756-243  | Sequence 243, App  | 657 | 15 | 0.8 | 620 | 4 | US-09-385-982-153   | Sequence 153, App  |
| 585 | 15 | 0.8 | 347 | 4 | US-09-060-756-132  | Sequence 132, App  | 658 | 15 | 0.8 | 622 | 4 | US-09-040-984-57    | Sequence 57, Appl  |
| 586 | 15 | 0.8 | 347 | 4 | US-09-328-111-848  | Sequence 848, App  | 659 | 15 | 0.8 | 622 | 4 | US-09-123-912-57    | Sequence 57, Appl  |
| 587 | 15 | 0.8 | 349 | 4 | US-08-943-731-119  | Sequence 119, App  | 660 | 15 | 0.8 | 622 | 4 | US-09-643-597-57    | Sequence 57, Appl  |
| 588 | 15 | 0.8 | 354 | 4 | US-09-480-921B-21  | Sequence 21, Appl  | 661 | 15 | 0.8 | 624 | 4 | US-09-257-580-3     | Sequence 3, Appl   |
| 589 | 15 | 0.8 | 360 | 1 | US-07-920-519-28   | Sequence 28, Appl  | 662 | 15 | 0.8 | 631 | 4 | US-09-328-111-126   | Sequence 126, App  |
| 590 | 15 | 0.8 | 360 | 1 | US-08-086-410-21   | Sequence 21, Appl  | 663 | 15 | 0.8 | 633 | 3 | US-09-050-603A-36   | Sequence 36, Appl  |
| 591 | 15 | 0.8 | 360 | 1 | US-08-314-586-28   | Sequence 28, Appl  | 664 | 15 | 0.8 | 633 | 3 | US-09-102-420B-36   | Sequence 36, Appl  |
| 592 | 15 | 0.8 | 360 | 4 | US-09-227-357-121  | Sequence 121, App  | 665 | 15 | 0.8 | 633 | 4 | US-09-352-990-15    | Sequence 15, Appl  |
| 593 | 15 | 0.8 | 362 | 4 | US-09-060-756-381  | Sequence 381, App  | 666 | 15 | 0.8 | 633 | 4 | US-09-497-698-36    | Sequence 36, Appl  |
| 594 | 15 | 0.8 | 363 | 4 | US-08-905-223-206  | Sequence 206, App  | 667 | 15 | 0.8 | 639 | 4 | US-09-328-111-180   | Sequence 180, App  |
| 595 | 15 | 0.8 | 363 | 4 | US-09-276-599-20   | Sequence 20, Appl  | 668 | 15 | 0.8 | 641 | 2 | US-08-522-421-6     | Sequence 6, Appl   |
| 596 | 15 | 0.8 | 367 | 4 | US-09-328-111-446  | Sequence 446, App  | 669 | 15 | 0.8 | 642 | 4 | US-09-280-116-255   | Sequence 255, App  |
| 597 | 15 | 0.8 | 367 | 4 | US-09-219-983A-13  | Sequence 13, Appl  | 670 | 15 | 0.8 | 642 | 4 | US-09-370-838-119   | Sequence 119, App  |
| 598 | 15 | 0.8 | 378 | 6 | 5274075-3          | Patent No. 5274075 | 671 | 15 | 0.8 | 643 | 4 | US-08-861-774E-43   | Sequence 43, Appl  |
| 599 | 15 | 0.8 | 384 | 1 | US-08-259-372A-13  | Sequence 13, Appl  | 672 | 15 | 0.8 | 649 | 4 | US-08-861-774E-61   | Sequence 61, Appl  |
| 600 | 15 | 0.8 | 384 | 1 | US-08-468-271D-13  | Sequence 13, Appl  | 673 | 15 | 0.8 | 649 | 4 | US-09-230-670C-2    | Sequence 2, Appl   |
| 601 | 15 | 0.8 | 388 | 4 | US-08-642-674D-13  | Sequence 13, Appl  | 674 | 15 | 0.8 | 655 | 3 | US-09-188-930-119   | Sequence 119, App  |
| 602 | 15 | 0.8 | 388 | 4 | US-08-952-014C-13  | Sequence 13, Appl  | 675 | 15 | 0.8 | 672 | 4 | US-09-161-241-78    | Sequence 78, App   |
| 603 | 15 | 0.8 | 407 | 4 | US-09-280-116-105  | Sequence 105, App  | 676 | 15 | 0.8 | 675 | 4 | US-08-998-416-179   | Sequence 179, App  |
| 604 | 15 | 0.8 | 412 | 4 | US-09-200-934-7    | Sequence 7, Appl   | 677 | 15 | 0.8 | 681 | 4 | US-09-134-001C-2410 | Sequence 2410, App |
| 605 | 15 | 0.8 | 423 | 1 | US-08-470-179-163  | Sequence 163, App  | 678 | 15 | 0.8 | 685 | 4 | US-08-998-416-951   | Sequence 951, Appl |
| 606 | 15 | 0.8 | 426 | 4 | US-09-060-756-124  | Sequence 124, App  | 679 | 15 | 0.8 | 686 | 1 | US-08-591-498-15    | Sequence 15, Appl  |
| 607 | 15 | 0.8 | 436 | 4 | US-09-060-756-100  | Sequence 100, App  | 680 | 15 | 0.8 | 691 | 6 | 5175255-3           | Patent No. 5175255 |
| 608 | 15 | 0.8 | 452 | 1 | US-07-662-198B-1   | Sequence 1, Appl   | 681 | 15 | 0.8 | 693 | 4 | US-09-280-116-36    | Sequence 36, Appl  |
| 609 | 15 | 0.8 | 452 | 1 | US-08-322-742-1    | Sequence 1, Appl   | 682 | 15 | 0.8 | 700 | 1 | US-08-037-579A-4    | Sequence 4, Appl   |
| 610 | 15 | 0.8 | 461 | 2 | US-08-467-046-24   | Sequence 24, Appl  | 683 | 15 | 0.8 | 700 | 1 | US-07-846-992-1     | Sequence 1, Appl   |
| 611 | 15 | 0.8 | 462 | 4 | US-09-712-016-68   | Sequence 68, Appl  | 684 | 15 | 0.8 | 700 | 1 | US-08-469-555-1     | Sequence 1, Appl   |

|       |    |     |     |   |                    |                    |       |    |     |      |   |                   |                    |
|-------|----|-----|-----|---|--------------------|--------------------|-------|----|-----|------|---|-------------------|--------------------|
| 685   | 15 | 0.8 | 700 | 3 | US-08-601-184-4    | Sequence 4, Appli  | 758   | 15 | 0.8 | 861  | 2 | US-08-924-759-15  | Sequence 15, Appli |
| 686   | 15 | 0.8 | 704 | 2 | US-08-874-186-43   | Sequence 43, Appl  | 759   | 15 | 0.8 | 861  | 3 | US-09-248-335-15  | Sequence 15, Appl  |
| 687   | 15 | 0.8 | 707 | 2 | US-08-850-910A-40  | Sequence 40, Appl  | 760   | 15 | 0.8 | 863  | 1 | US-07-940-861-11  | Sequence 11, Appl  |
| c 688 | 15 | 0.8 | 711 | 4 | US-08-943-731-108  | Sequence 108, App  | 761   | 15 | 0.8 | 863  | 1 | US-08-459-512-11  | Sequence 11, Appl  |
| 689   | 15 | 0.8 | 720 | 3 | US-08-946-026-14   | Sequence 14, Appl  | 762   | 15 | 0.8 | 863  | 2 | US-08-459-657-11  | Sequence 11, Appl  |
| 690   | 15 | 0.8 | 720 | 4 | US-08-998-416-582  | Sequence 582, App  | 763   | 15 | 0.8 | 863  | 2 | US-08-460-132-11  | Sequence 11, Appl  |
| c 691 | 15 | 0.8 | 724 | 4 | US-09-221-017B-719 | Sequence 719, App  | 764   | 15 | 0.8 | 863  | 5 | PCT-US92-02050-11 | Sequence 11, Appl  |
| c 692 | 15 | 0.8 | 725 | 4 | US-08-998-416-829  | Sequence 829, App  | 765   | 15 | 0.8 | 863  | 6 | 5185441-35        | Patent No. 5185441 |
| 693   | 15 | 0.8 | 731 | 4 | US-09-043-646-1    | Sequence 1, Appli  | 766   | 15 | 0.8 | 863  | 6 | 5223394-5         | Patent No. 5223394 |
| c 694 | 15 | 0.8 | 731 | 4 | US-09-641-638-87   | Sequence 87, Appl  | 767   | 15 | 0.8 | 867  | 4 | US-09-475-316A-22 | Sequence 22, Appl  |
| 695   | 15 | 0.8 | 735 | 4 | US-09-149-476-269  | Sequence 269, App  | 768   | 15 | 0.8 | 868  | 1 | US-08-387-845-3   | Sequence 3, Appli  |
| 696   | 15 | 0.8 | 739 | 1 | US-08-156-383-3    | Sequence 3, Appli  | 769   | 15 | 0.8 | 868  | 2 | US-08-778-275-3   | Sequence 3, Appli  |
| 697   | 15 | 0.8 | 739 | 1 | US-08-340-136-3    | Sequence 3, Appli  | 770   | 15 | 0.8 | 868  | 3 | US-08-867-352-3   | Sequence 3, Appli  |
| 698   | 15 | 0.8 | 739 | 5 | PCT-US92-10866-3   | Sequence 3, Appli  | 771   | 15 | 0.8 | 880  | 1 | US-08-616-368A-7  | Sequence 7, Appli  |
| 699   | 15 | 0.8 | 740 | 4 | US-09-020-956-17   | Sequence 17, Appl  | 772   | 15 | 0.8 | 880  | 1 | US-09-054-298-7   | Sequence 7, Appli  |
| 700   | 15 | 0.8 | 740 | 4 | US-09-030-607-17   | Sequence 17, Appl  | 773   | 15 | 0.8 | 880  | 4 | US-08-818-655-7   | Sequence 7, Appli  |
| 701   | 15 | 0.8 | 740 | 4 | US-09-605-785-17   | Sequence 17, Appl  | 774   | 15 | 0.8 | 882  | 4 | US-08-909-965C-9  | Sequence 9, Appli  |
| 702   | 15 | 0.8 | 740 | 4 | US-09-439-313-17   | Sequence 17, Appl  | 775   | 15 | 0.8 | 884  | 1 | US-08-178-708-7   | Sequence 7, Appli  |
| 703   | 15 | 0.8 | 740 | 4 | US-09-352-616A-17  | Sequence 17, Appl  | 776   | 15 | 0.8 | 894  | 1 | US-08-457-552-7   | Sequence 7, Appli  |
| 704   | 15 | 0.8 | 740 | 4 | US-09-232-149A-17  | Sequence 17, Appl  | 777   | 15 | 0.8 | 894  | 1 | US-08-456-430-7   | Sequence 7, Appli  |
| 705   | 15 | 0.8 | 751 | 1 | US-08-592-936B-10  | Sequence 10, Appl  | 778   | 15 | 0.8 | 894  | 2 | US-08-994-418-7   | Sequence 7, Appli  |
| 706   | 15 | 0.8 | 751 | 1 | US-08-788-928A-16  | Sequence 16, Appl  | 779   | 15 | 0.8 | 894  | 5 | PCT-US95-00432-7  | Sequence 7, Appli  |
| 707   | 15 | 0.8 | 751 | 2 | US-09-111-573-10   | Sequence 10, Appl  | 780   | 15 | 0.8 | 897  | 2 | US-08-630-822A-59 | Sequence 59, Appl  |
| 708   | 15 | 0.8 | 752 | 4 | US-09-247-155-47   | Sequence 47, Appl  | 781   | 15 | 0.8 | 897  | 2 | US-09-005-069-59  | Sequence 59, Appl  |
| 709   | 15 | 0.8 | 765 | 1 | US-08-173-510B-102 | Sequence 102, App  | 782   | 15 | 0.8 | 897  | 2 | US-09-171-156A-17 | Sequence 17, Appl  |
| 710   | 15 | 0.8 | 765 | 1 | US-08-458-218-100  | Sequence 100, App  | 783   | 15 | 0.8 | 901  | 4 | US-09-475-316A-12 | Sequence 12, Appl  |
| 711   | 15 | 0.8 | 765 | 2 | US-08-450-497-102  | Sequence 102, App  | 784   | 15 | 0.8 | 905  | 3 | US-08-941-263-2   | Sequence 2, Appli  |
| 712   | 15 | 0.8 | 771 | 4 | US-09-040-984-85   | Sequence 85, Appl  | 785   | 15 | 0.8 | 905  | 3 | US-09-227-178-2   | Sequence 2, Appli  |
| 713   | 15 | 0.8 | 771 | 4 | US-09-123-912-85   | Sequence 85, Appl  | 786   | 15 | 0.8 | 905  | 4 | US-08-470-449-2   | Sequence 2, Appli  |
| 714   | 15 | 0.8 | 771 | 4 | US-09-643-597-85   | Sequence 85, Appl  | 787   | 15 | 0.8 | 912  | 2 | US-08-993-228-7   | Sequence 7, Appli  |
| c 715 | 15 | 0.8 | 775 | 3 | US-09-361-434-6    | Sequence 85, Appl  | 788   | 15 | 0.8 | 913  | 4 | US-09-465-558-45  | Sequence 45, Appl  |
| c 716 | 15 | 0.8 | 775 | 3 | US-09-361-434-6    | Sequence 85, Appl  | 789   | 15 | 0.8 | 921  | 1 | US-08-722-001-17  | Sequence 17, Appl  |
| c 717 | 15 | 0.8 | 775 | 4 | US-09-635-025-6    | Sequence 6, Appli  | 790   | 15 | 0.8 | 925  | 5 | US-08-544-900-3   | Sequence 3, Appli  |
| c 718 | 15 | 0.8 | 775 | 4 | US-09-635-025-6    | Sequence 6, Appli  | 791   | 15 | 0.8 | 925  | 1 | PCT-US95-07874-2  | Sequence 2, Appli  |
| 719   | 15 | 0.8 | 783 | 4 | US-09-157-910-6    | Sequence 88, Appl  | 792   | 15 | 0.8 | 927  | 2 | US-07-690-132-1   | Sequence 1, Appli  |
| c 720 | 15 | 0.8 | 783 | 4 | US-09-641-638-88   | Sequence 41, Appl  | c 793 | 15 | 0.8 | 927  | 4 | US-09-147-915-2   | Sequence 2, Appli  |
| 721   | 15 | 0.8 | 794 | 2 | US-09-188-930-41   | Sequence 41, Appl  | 794   | 15 | 0.8 | 931  | 4 | US-09-531-056A-9  | Sequence 9, Appli  |
| c 722 | 15 | 0.8 | 797 | 3 | US-08-752-132-1    | Sequence 1, Appli  | 795   | 15 | 0.8 | 933  | 3 | US-08-808-148-2   | Sequence 2, Appli  |
| 723   | 15 | 0.8 | 797 | 3 | US-09-188-930-35   | Sequence 35, Appl  | c 796 | 15 | 0.8 | 937  | 3 | US-08-961-083-11  | Sequence 11, Appl  |
| c 724 | 15 | 0.8 | 806 | 4 | US-09-222-575-86   | Sequence 86, Appl  | 797   | 15 | 0.8 | 940  | 1 | US-08-089-998B-1  | Sequence 1, Appli  |
| c 725 | 15 | 0.8 | 814 | 4 | US-09-020-956-1    | Sequence 1, Appli  | 798   | 15 | 0.8 | 940  | 1 | US-08-457-272-1   | Sequence 1, Appli  |
| c 726 | 15 | 0.8 | 814 | 4 | US-09-030-607-1    | Sequence 1, Appli  | 799   | 15 | 0.8 | 940  | 5 | PCT-US94-07595-1  | Sequence 1, Appli  |
| c 727 | 15 | 0.8 | 814 | 4 | US-09-605-785-1    | Sequence 1, Appli  | 800   | 15 | 0.8 | 943  | 2 | US-08-303-569B-4  | Sequence 4, Appli  |
| c 728 | 15 | 0.8 | 814 | 4 | US-09-439-313-1    | Sequence 1, Appli  | 801   | 15 | 0.8 | 943  | 2 | US-08-116-247-4   | Sequence 4, Appli  |
| c 729 | 15 | 0.8 | 814 | 4 | US-09-352-616A-1   | Sequence 1, Appli  | 802   | 15 | 0.8 | 950  | 4 | US-09-593-995-3   | Sequence 3, Appli  |
| c 730 | 15 | 0.8 | 814 | 4 | US-09-232-149A-1   | Sequence 1, Appli  | 803   | 15 | 0.8 | 951  | 1 | US-08-221-750A-12 | Sequence 12, Appl  |
| 731   | 15 | 0.8 | 816 | 2 | US-08-709-874A-3   | Sequence 3, Appli  | 804   | 15 | 0.8 | 951  | 4 | US-08-071-035-93  | Sequence 93, Appl  |
| 732   | 15 | 0.8 | 816 | 2 | US-08-104-382-3    | Sequence 16, Appl  | 805   | 15 | 0.8 | 953  | 1 | US-08-197-793-1   | Sequence 1, Appli  |
| 733   | 15 | 0.8 | 816 | 4 | US-09-104-382-3    | Sequence 13, Appl  | 806   | 15 | 0.8 | 953  | 2 | US-08-636-176-1   | Sequence 1, Appli  |
| c 734 | 15 | 0.8 | 816 | 4 | US-08-899-330-13   | Sequence 16, Appl  | 807   | 15 | 0.8 | 953  | 5 | PCT-US95-01618-1  | Sequence 1, Appli  |
| c 735 | 15 | 0.8 | 817 | 4 | US-08-899-330-13   | Sequence 13, Appl  | 808   | 15 | 0.8 | 954  | 4 | US-09-593-995-1   | Sequence 1, Appli  |
| c 736 | 15 | 0.8 | 832 | 4 | US-09-152-060-27   | Sequence 27, Appl  | 809   | 15 | 0.8 | 969  | 2 | US-08-365-486A-27 | Sequence 27, Appl  |
| c 737 | 15 | 0.8 | 835 | 3 | US-08-957-302A-9   | Sequence 9, Appli  | 810   | 15 | 0.8 | 969  | 2 | US-08-880-342-27  | Sequence 27, Appl  |
| 738   | 15 | 0.8 | 835 | 4 | US-09-542-403-9    | Sequence 9, Appli  | 811   | 15 | 0.8 | 973  | 3 | US-09-013-881-16  | Sequence 16, Appl  |
| 739   | 15 | 0.8 | 836 | 2 | US-08-698-805-7    | Sequence 7, Appli  | 812   | 15 | 0.8 | 975  | 4 | US-09-381-488-6   | Sequence 6, Appli  |
| 740   | 15 | 0.8 | 836 | 4 | US-09-222-575-70   | Sequence 70, Appl  | c 813 | 15 | 0.8 | 975  | 6 | 5168051-3         | Patent No. 5168051 |
| 741   | 15 | 0.8 | 841 | 4 | US-09-004-731-40   | Sequence 40, Appl  | c 814 | 15 | 0.8 | 984  | 3 | US-08-748-506-9   | Sequence 9, Appli  |
| c 742 | 15 | 0.8 | 841 | 4 | US-09-004-731-40   | Sequence 42, Appl  | 815   | 15 | 0.8 | 984  | 4 | US-09-227-357-56  | Sequence 56, Appl  |
| c 743 | 15 | 0.8 | 841 | 4 | US-09-032-215-46   | Sequence 46, Appl  | 816   | 15 | 0.8 | 998  | 4 | US-09-316-081-1   | Sequence 1, Appli  |
| c 744 | 15 | 0.8 | 841 | 4 | US-09-032-215-48   | Sequence 48, Appl  | 817   | 15 | 0.8 | 998  | 4 | US-09-316-081-3   | Sequence 3, Appli  |
| 745   | 15 | 0.8 | 841 | 4 | US-08-749-699-40   | Sequence 40, Appl  | 818   | 15 | 0.8 | 998  | 4 | US-09-578-458-1   | Sequence 1, Appli  |
| c 746 | 15 | 0.8 | 841 | 4 | US-08-749-699-42   | Sequence 42, Appl  | 819   | 15 | 0.8 | 998  | 4 | US-09-578-458-3   | Sequence 3, Appli  |
| 747   | 15 | 0.8 | 841 | 4 | US-09-004-729-40   | Sequence 40, Appl  | 820   | 15 | 0.8 | 998  | 4 | US-09-522-964A-3  | Sequence 3, Appli  |
| c 748 | 15 | 0.8 | 841 | 4 | US-09-004-729-40   | Sequence 42, Appl  | 821   | 15 | 0.8 | 998  | 4 | US-09-522-964A-1  | Sequence 1, Appli  |
| 749   | 15 | 0.8 | 842 | 4 | US-09-149-476-115  | Sequence 115, App  | c 822 | 15 | 0.8 | 1000 | 4 | US-09-357-251-19  | Sequence 19, Appl  |
| 750   | 15 | 0.8 | 846 | 3 | US-09-154-874-1    | Sequence 1, Appli  | 823   | 15 | 0.8 | 1001 | 4 | US-09-641-638-89  | Sequence 89, Appl  |
| 751   | 15 | 0.8 | 846 | 4 | US-08-905-223-27   | Sequence 27, Appl  | c 824 | 15 | 0.8 | 1001 | 4 | US-09-641-638-358 | Sequence 358, App  |
| 752   | 15 | 0.8 | 848 | 4 | US-09-247-155-27   | Sequence 27, Appl  | 825   | 15 | 0.8 | 1001 | 4 | US-09-641-638-459 | Sequence 459, App  |
| 753   | 15 | 0.8 | 853 | 3 | US-09-081-180-1    | Sequence 1, Appli  | 826   | 15 | 0.8 | 1003 | 4 | US-09-149-476-162 | Sequence 162, App  |
| 754   | 15 | 0.8 | 853 | 3 | US-09-040-786-1    | Sequence 1, Appli  | 827   | 15 | 0.8 | 1003 | 4 | US-09-248-335-31  | Sequence 31, Appl  |
| 755   | 15 | 0.8 | 855 | 6 | 5185441-40         | Patent No. 5185441 | 828   | 15 | 0.8 | 1007 | 6 | 5223394-8         | Patent No. 5223394 |
| 756   | 15 | 0.8 | 855 | 6 | 5223394-3          | Patent No. 5223394 | 829   | 15 | 0.8 | 1015 | 2 | US-08-121-436A-1  | Sequence 1, Appli  |
| 757   | 15 | 0.8 | 857 | 4 | US-09-268-364-15   | Sequence 15, Appl  | 830   | 15 | 0.8 |      |   |                   |                    |

|     |    |     |      |   |                     |                    |       |    |     |      |   |                    |                    |
|-----|----|-----|------|---|---------------------|--------------------|-------|----|-----|------|---|--------------------|--------------------|
| 831 | 15 | 0.8 | 1016 | 4 | US-09-164-193-4     | Sequence 4, Appli  | 904   | 15 | 0.8 | 1203 | 2 | US-08-870-180B-1   | Sequence 1, Appli  |
| 832 | 15 | 0.8 | 1016 | 4 | US-09-221-448A-4    | Sequence 4, Appli  | 905   | 15 | 0.8 | 1203 | 3 | US-08-814-052-3    | Sequence 3, Appli  |
| 833 | 15 | 0.8 | 1023 | 1 | US-08-698-551-7     | Sequence 7, Appli  | 906   | 15 | 0.8 | 1203 | 3 | US-08-812-829-3    | Sequence 3, Appli  |
| 834 | 15 | 0.8 | 1023 | 2 | US-08-602-228-7     | Sequence 7, Appli  | 907   | 15 | 0.8 | 1203 | 4 | US-09-226-529-1    | Sequence 1, Appli  |
| 835 | 15 | 0.8 | 1023 | 2 | US-08-649-341A-7    | Sequence 7, Appli  | 908   | 15 | 0.8 | 1229 | 4 | US-08-836-047-2    | Sequence 2, Appli  |
| 836 | 15 | 0.8 | 1023 | 2 | US-08-494-440B-7    | Sequence 7, Appli  | 909   | 15 | 0.8 | 1233 | 1 | US-08-289-458-4    | Sequence 4, Appli  |
| 837 | 15 | 0.8 | 1023 | 2 | US-08-533-901B-7    | Sequence 7, Appli  | 910   | 15 | 0.8 | 1233 | 4 | US-09-127-646-4    | Sequence 4, Appli  |
| 838 | 15 | 0.8 | 1023 | 2 | US-08-839-032A-7    | Sequence 7, Appli  | 911   | 15 | 0.8 | 1233 | 4 | US-09-127-646-4    | Sequence 4, Appli  |
| 839 | 15 | 0.8 | 1023 | 3 | US-08-839-031A-7    | Sequence 7, Appli  | 912   | 15 | 0.8 | 1240 | 4 | US-09-009-816-21   | Sequence 21, Appli |
| 840 | 15 | 0.8 | 1023 | 3 | US-08-554-385-4     | Sequence 4, Appli  | 913   | 15 | 0.8 | 1244 | 2 | US-08-204-288-3    | Sequence 3, Appli  |
| 841 | 15 | 0.8 | 1023 | 4 | US-09-185-258C-7    | Sequence 7, Appli  | 914   | 15 | 0.8 | 1249 | 3 | US-08-564-496C-42  | Sequence 42, Appli |
| 842 | 15 | 0.8 | 1023 | 5 | PCT-US92-01196-5    | Sequence 5, Appli  | 915   | 15 | 0.8 | 1250 | 3 | US-08-688-988-1    | Sequence 1, Appli  |
| 843 | 15 | 0.8 | 1023 | 5 | PCT-US95-12724-7    | Sequence 7, Appli  | 916   | 15 | 0.8 | 1253 | 4 | US-09-215-694-24   | Sequence 24, Appli |
| 844 | 15 | 0.8 | 1025 | 2 | US-08-482-728A-20   | Sequence 20, Appl  | c 917 | 15 | 0.8 | 1254 | 4 | US-08-642-274D-49  | Sequence 49, Appl  |
| 845 | 15 | 0.8 | 1032 | 4 | US-09-257-179-21    | Sequence 21, Appl  | c 918 | 15 | 0.8 | 1254 | 4 | US-08-952-014C-49  | Sequence 49, Appl  |
| 846 | 15 | 0.8 | 1040 | 4 | US-09-183-959-11    | Sequence 11, Appl  | 919   | 15 | 0.8 | 1255 | 1 | US-08-518-878B-38  | Sequence 38, Appl  |
| 847 | 15 | 0.8 | 1040 | 4 | US-09-589-287B-22   | Sequence 22, Appl  | 920   | 15 | 0.8 | 1255 | 2 | US-08-294-522B-38  | Sequence 38, Appl  |
| 848 | 15 | 0.8 | 1045 | 2 | US-09-014-969-6     | Sequence 6, Appli  | 921   | 15 | 0.8 | 1255 | 2 | US-08-470-868A-38  | Sequence 38, Appl  |
| 849 | 15 | 0.8 | 1047 | 4 | US-08-955-918C-3    | Sequence 3, Appli  | 922   | 15 | 0.8 | 1257 | 3 | US-08-487-748A-11  | Sequence 11, Appl  |
| 850 | 15 | 0.8 | 1047 | 4 | US-08-697-766A-3    | Sequence 3, Appli  | 923   | 15 | 0.8 | 1257 | 3 | US-08-480-070C-11  | Sequence 11, Appl  |
| 851 | 15 | 0.8 | 1050 | 1 | US-08-599-252-81    | Sequence 81, Appl  | 924   | 15 | 0.8 | 1257 | 3 | US-08-829-525-11   | Sequence 11, Appl  |
| 852 | 15 | 0.8 | 1050 | 1 | US-08-436-074-54    | Sequence 54, Appl  | 925   | 15 | 0.8 | 1257 | 4 | US-08-609-583A-11  | Sequence 11, Appl  |
| 853 | 15 | 0.8 | 1050 | 5 | PCT-US96-06352-81   | Sequence 81, Appl  | 926   | 15 | 0.8 | 1257 | 4 | US-08-937-399-11   | Sequence 11, Appl  |
| 854 | 15 | 0.8 | 1050 | 5 | PCT-US96-06353-81   | Sequence 81, Appl  | 927   | 15 | 0.8 | 1257 | 4 | US-09-310-367-11   | Sequence 11, Appl  |
| 855 | 15 | 0.8 | 1051 | 2 | US-08-865-273-1     | Sequence 81, Appl  | 928   | 15 | 0.8 | 1257 | 4 | US-09-032-337-11   | Sequence 11, Appl  |
| 856 | 15 | 0.8 | 1051 | 4 | US-09-385-174-1     | Sequence 1, Appli  | 929   | 15 | 0.8 | 1258 | 1 | US-08-335-518-1    | Sequence 1, Appli  |
| 857 | 15 | 0.8 | 1052 | 4 | US-09-592-891A-8    | Sequence 8, Appli  | 930   | 15 | 0.8 | 1258 | 4 | US-08-988-054-1    | Sequence 1, Appli  |
| 858 | 15 | 0.8 | 1064 | 4 | US-08-910-864-12    | Sequence 12, Appl  | 931   | 15 | 0.8 | 1267 | 1 | US-08-140-797-1    | Sequence 1, Appli  |
| 859 | 15 | 0.8 | 1067 | 4 | US-09-045-193-1     | Sequence 1, Appli  | 932   | 15 | 0.8 | 1267 | 1 | US-08-486-670A-1   | Sequence 1, Appli  |
| 860 | 15 | 0.8 | 1068 | 3 | US-09-248-335-73    | Sequence 7, Appl   | 933   | 15 | 0.8 | 1269 | 4 | US-09-149-476-143  | Sequence 143, App  |
| 861 | 15 | 0.8 | 1078 | 6 | 5223394-10          | Patent No. 5223394 | 934   | 15 | 0.8 | 1273 | 4 | US-09-319-892-3    | Sequence 3, Appli  |
| 862 | 15 | 0.8 | 1079 | 4 | US-09-149-476-215   | Sequence 215, App  | 935   | 15 | 0.8 | 1277 | 1 | US-08-176-427B-1   | Sequence 1, Appli  |
| 863 | 15 | 0.8 | 1095 | 3 | US-09-195-666A-11   | Sequence 11, Appl  | 936   | 15 | 0.8 | 1277 | 2 | US-08-356-060A-1   | Sequence 1, Appli  |
| 864 | 15 | 0.8 | 1095 | 3 | US-09-195-666A-12   | Sequence 12, Appl  | 937   | 15 | 0.8 | 1277 | 4 | US-08-460-900C-1   | Sequence 1, Appli  |
| 865 | 15 | 0.8 | 1095 | 3 | US-09-195-666A-13   | Sequence 13, Appl  | 938   | 15 | 0.8 | 1277 | 4 | US-08-674-509B-1   | Sequence 1, Appli  |
| 866 | 15 | 0.8 | 1095 | 3 | US-09-195-666A-14   | Sequence 14, Appl  | 939   | 15 | 0.8 | 1277 | 4 | US-08-954-698-1    | Sequence 1, Appli  |
| 867 | 15 | 0.8 | 1095 | 4 | US-09-635-705-11    | Sequence 11, Appl  | 940   | 15 | 0.8 | 1277 | 4 | US-08-957-874-1    | Sequence 1, Appli  |
| 868 | 15 | 0.8 | 1095 | 4 | US-09-635-705-12    | Sequence 12, Appl  | 941   | 15 | 0.8 | 1277 | 4 | US-09-325-256-5    | Sequence 5, Appli  |
| 869 | 15 | 0.8 | 1095 | 4 | US-09-635-705-13    | Sequence 13, Appl  | 942   | 15 | 0.8 | 1279 | 3 | US-09-248-335-25   | Sequence 25, Appl  |
| 870 | 15 | 0.8 | 1095 | 4 | US-09-635-705-14    | Sequence 14, Appl  | 943   | 15 | 0.8 | 1289 | 4 | US-08-640-737-7    | Sequence 7, Appli  |
| 871 | 15 | 0.8 | 1095 | 4 | US-09-634-858A-11   | Sequence 11, Appl  | 944   | 15 | 0.8 | 1289 | 4 | US-09-020-956-111  | Sequence 111, App  |
| 872 | 15 | 0.8 | 1095 | 4 | US-09-634-858A-12   | Sequence 12, Appl  | 945   | 15 | 0.8 | 1289 | 4 | US-09-030-607-111  | Sequence 111, App  |
| 873 | 15 | 0.8 | 1095 | 4 | US-09-634-858A-13   | Sequence 13, Appl  | 946   | 15 | 0.8 | 1289 | 4 | US-09-605-785-111  | Sequence 111, App  |
| 874 | 15 | 0.8 | 1095 | 4 | US-09-634-858A-14   | Sequence 14, Appl  | 947   | 15 | 0.8 | 1289 | 4 | US-09-439-313-111  | Sequence 111, App  |
| 875 | 15 | 0.8 | 1096 | 3 | US-09-136-073-1     | Sequence 1, Appli  | 948   | 15 | 0.8 | 1289 | 4 | US-09-352-616A-111 | Sequence 111, App  |
| 876 | 15 | 0.8 | 1096 | 4 | US-09-457-024A-1    | Sequence 1, Appli  | 949   | 15 | 0.8 | 1289 | 4 | US-09-232-149A-111 | Sequence 111, App  |
| 877 | 15 | 0.8 | 1100 | 4 | US-09-372-422A-47   | Sequence 47, Appl  | 950   | 15 | 0.8 | 1293 | 1 | US-08-317-522A-6   | Sequence 6, Appli  |
| 878 | 15 | 0.8 | 1101 | 1 | US-08-525-505A-1    | Sequence 1, Appli  | 951   | 15 | 0.8 | 1293 | 1 | US-08-439-818A-6   | Sequence 6, Appli  |
| 879 | 15 | 0.8 | 1106 | 3 | US-09-361-434-16    | Sequence 16, Appl  | 952   | 15 | 0.8 | 1293 | 2 | US-08-751-965-6    | Sequence 6, Appli  |
| 880 | 15 | 0.8 | 1106 | 3 | US-09-361-434-18    | Sequence 18, Appl  | 953   | 15 | 0.8 | 1293 | 2 | US-08-738-975-6    | Sequence 6, Appli  |
| 881 | 15 | 0.8 | 1106 | 4 | US-09-635-025-16    | Sequence 16, Appl  | 954   | 15 | 0.8 | 1293 | 2 | US-08-728-626-6    | Sequence 6, Appli  |
| 882 | 15 | 0.8 | 1106 | 4 | US-09-635-025-18    | Sequence 18, Appl  | 955   | 15 | 0.8 | 1293 | 3 | US-08-808-599A-6   | Sequence 6, Appli  |
| 883 | 15 | 0.8 | 1107 | 4 | US-09-227-357-19    | Sequence 19, Appl  | 956   | 15 | 0.8 | 1293 | 4 | US-09-182-145-13   | Sequence 13, Appl  |
| 884 | 15 | 0.8 | 1120 | 3 | US-08-884-324-2     | Sequence 2, Appli  | 957   | 15 | 0.8 | 1293 | 4 | US-09-182-145-14   | Sequence 14, Appl  |
| 885 | 15 | 0.8 | 1120 | 3 | US-08-832-180-6     | Sequence 6, Appli  | 958   | 15 | 0.8 | 1293 | 4 | US-09-325-932A-17  | Sequence 17, Appl  |
| 886 | 15 | 0.8 | 1122 | 2 | US-08-482-728A-21   | Sequence 21, Appl  | 959   | 15 | 0.8 | 1299 | 1 | US-08-723-938-4    | Sequence 4, Appli  |
| 887 | 15 | 0.8 | 1122 | 3 | US-09-039-555B-7    | Sequence 7, Appli  | 960   | 15 | 0.8 | 1299 | 2 | US-09-080-538-4    | Sequence 4, Appli  |
| 888 | 15 | 0.8 | 1131 | 2 | US-08-951-924A-1    | Sequence 1, Appli  | 961   | 15 | 0.8 | 1302 | 4 | US-09-372-422A-27  | Sequence 27, Appl  |
| 889 | 15 | 0.8 | 1131 | 4 | US-09-172-339-3     | Sequence 3, Appli  | 962   | 15 | 0.8 | 1314 | 3 | US-09-025-059-2    | Sequence 2, Appli  |
| 890 | 15 | 0.8 | 1131 | 4 | US-09-420-211-10    | Sequence 10, Appl  | 963   | 15 | 0.8 | 1314 | 4 | US-09-500-569-5    | Sequence 5, Appli  |
| 891 | 15 | 0.8 | 1133 | 3 | US-08-983-409-5     | Sequence 5, Appli  | 964   | 15 | 0.8 | 1315 | 2 | US-08-578-592-4    | Sequence 4, Appli  |
| 892 | 15 | 0.8 | 1133 | 4 | US-08-858-207A-3    | Sequence 3, Appli  | 965   | 15 | 0.8 | 1315 | 3 | US-09-185-111-4    | Sequence 4, Appli  |
| 893 | 15 | 0.8 | 1138 | 3 | US-08-946-914-1     | Sequence 1, Appli  | 966   | 15 | 0.8 | 1315 | 4 | US-09-164-193-1    | Sequence 1, Appli  |
| 894 | 15 | 0.8 | 1138 | 4 | US-09-656-450-1     | Sequence 1, Appli  | 967   | 15 | 0.8 | 1315 | 4 | US-09-221-448A-1   | Sequence 1, Appli  |
| 895 | 15 | 0.8 | 1140 | 2 | US-08-698-805-5     | Sequence 5, Appli  | 968   | 15 | 0.8 | 1317 | 1 | US-08-453-472-4    | Sequence 4, Appli  |
| 896 | 15 | 0.8 | 1147 | 1 | US-08-665-716-1     | Sequence 1, Appli  | 969   | 15 | 0.8 | 1317 | 1 | US-08-038-948-1    | Sequence 1, Appli  |
| 897 | 15 | 0.8 | 1192 | 4 | US-08-944-483-8     | Sequence 8, Appli  | 970   | 15 | 0.8 | 1317 | 1 | US-08-453-952-4    | Sequence 4, Appli  |
| 898 | 15 | 0.8 | 1193 | 4 | US-09-347-798-1     | Sequence 1, Appli  | 971   | 15 | 0.8 | 1317 | 2 | US-08-153-848-45   | Sequence 45, Appl  |
| 899 | 15 | 0.8 | 1194 | 4 | US-09-134-001C-1116 | Sequence 1116, Ap  | 972   | 15 | 0.8 | 1317 | 3 | US-08-862-903-4    | Sequence 4, Appli  |
| 900 | 15 | 0.8 | 1197 | 4 | US-09-257-179-18    | Sequence 18, Appl  | 973   | 15 | 0.8 | 1317 | 3 | US-09-299-843A-45  | Sequence 45, Appl  |
| 901 | 15 | 0.8 | 1198 | 4 | US-08-849-751-3     | Sequence 3, Appli  | 974   | 15 | 0.8 | 1317 | 4 | US-09-088-337B-45  | Sequence 45, Appl  |
| 902 | 15 | 0.8 | 1198 | 4 | US-09-478-816-3     | Sequence 3, Appli  | 975   | 15 | 0.8 | 1317 | 5 | PCT-US93-11153-45  | Sequence 45, Appl  |
| 903 | 15 | 0.8 | 1203 | 2 | US-08-713-298B-1    | Sequence 1, Appli  | 976   | 15 | 0.8 | 1320 | 1 | US-08-419-414-1    | Sequence 1, Appli  |



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DY      1634  GGCAGACAGAGAGCGAGGAGG 1654
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Db      1605  GGCAGACAGAGAGCGAGGAGG 1585

RESULT 3
US-08-750-703-4/c
; Sequence 4, Application US/08750703
; Patent No. 5891633
; GENERAL INFORMATION:
; APPLICANT: Gonzalez, Frank J.; Idle, Jeffrey R.
; TITLE OF INVENTION: DEFECTS IN DRUG
; TITLE OF INVENTION: METABOLISM
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Morgan & Finnegan
; STREET: 345 Park Ave.
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10154-0053
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/750.703
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/07605
; FILING DATE: 16-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Dorothy R. Auth
; REGISTRATION NUMBER: 36,434
; REFERENCE/DOCKET NUMBER: 2026-4196PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8779 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: genomic DNA
; FEATURE:
; NAME/KEY: CYP2A13
; LOCATION:
; OTHER INFORMATION:
;
US-08-750-703-4

Query Match 1.1%; Score 21; DB 2; Length 8779;
Best Local Similarity 100.0%; Pred. No. 3.5;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1634  GGCAGACAGAGCGAGGAGG 1654
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Db      1493  GGCAGACAGAGCGAGGAGG 1473

RESULT 4
US-09-152-060-25/c
; Sequence 25, Application US/09152060
; Patent No. 6448230
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 28 Human Secreted Proteins
; FILE REFERENCE: P2003p1.US
; CURRENT APPLICATION NUMBER: US/09/152,060
; CURRENT FILING DATE: 1998-09-17

```

```

; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Han, William T
; REGISTRATION NUMBER: 34,344
; REFERENCE/DOCKET NUMBER: ATG50048
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-270-5219
; TELEFAX: 610-270-4026
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2260 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-788-750-1

Query Match 1.0%; Score 19; DB 2; Length 2260;
Best Local Similarity 100.0%; Pred. No. 29;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1645 GGCAGGAGGCGCAGTGAGG 1663
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DB 771 GGCAGGAGGCGCAGTGAGG 753

RESULT 6
US-07-960-389-1
; Sequence 1, Application US/07960389
; Patent No. 5705611
; GENERAL INFORMATION:
; APPLICANT: HAYASHIDA, Kasuhiro;
; TITLE OF INVENTION: Human GM-CSF Receptor Component
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Schering-Plough Corporation
; STREET: 2000 Galloping Hill Road
; CITY: Kenilworth
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07033
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disc
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: System Software 7.1
; SOFTWARE: Microsoft Word 5.1a
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/960,389
; FILING DATE: 07-JAN-1993
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 554,745
; FILING DATE: 18-JUL-1990
; APPLICATION NUMBER: PCT/US 91/04846
; FILING DATE: 16-JUL-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Blasdale, John H. C.
; REGISTRATION NUMBER: 31,895
; REFERENCE/DOCKET NUMBER: DX0143Q
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (908) 298-2902
; TELEFAX: (908) 298-5388
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3475 base pairs
; TYPE: nucleotides
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: human
; FEATURE:
; OTHER INFORMATION: DNA sequence encoding Human GM-CSF receptor
US-07-960-389-1

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Query Match 1.0%; Score 19; DB 1; Length 3475;
Best Local Similarity 100.0%; Pred. No. 28;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 165 GCTGTGCTCTGCGCCCTCC 183
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DB 1563 GCTGTGCTCTGCGCCCTCC 1581

RESULT 7
US-08-770-379-19/c
; Sequence 19, Application US/08770379
; Patent No. 5849564
; GENERAL INFORMATION:
; APPLICANT: Chang, Yuan
; APPLICANT: Bohenzky, Roy A.
; APPLICANT: Russo, James J.
; APPLICANT: Edelman, Isidore S.
; APPLICANT: Moore, Patrick S.
; TITLE OF INVENTION: POLYPEPTIDES FROM KAPOSI'S SARCOMA-ASSOCIATED
; HERPESVIRUS, DNA ENCODING SAME AND USES THEREOF
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/770,379
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 52342
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 278-0400
; TELEFAX: (212) 391-0525
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 35100 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-770-379-19

Query Match 1.0%; Score 19; DB 2; Length 35100;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1351 CTGCCATGGGTTGGCAA 1369
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DB 13366 CTGCCATGGGTTGGCAA 13348

RESULT 8
US-08-757-669A-19/c
; Sequence 19, Application US/08757669A
; Patent No. 6183751
; GENERAL INFORMATION:
; APPLICANT: Chang, Yuan
; APPLICANT: Bohenzky, Roy A.
; APPLICANT: Russo, James J.
; APPLICANT: Edelman, Isidore S.

```



APPLICANT: Moore, Patrick S.  
TITLE OF INVENTION: UNIQUE ASSOCIATED KAPOSI'S SARCOMA VIRUS  
SEQUENCES AND USES THEREOF  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Cooper & Dunham LLP  
STREET: 1185 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 10036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION NUMBER: US/08/757,669A  
FILING DATE:  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: White, John P.  
REGISTRATION NUMBER: 28,678  
REFERENCE/DOCKET NUMBER: 45185-F  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 278-0400  
TELEFAX: (212) 391-0525  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 35100 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-757-669A-19

Query Match 1.0%; Score 19; DB 4; Length 35100;  
Best Local Similarity 100.0%; Pred. No. 26;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1351 CTGCCATGGGGTTTGGCAA 1369  
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DB 13366 CTGCCATGGGGTTTGGCAA 13348

## RESULT 9

US-09-230-371A-19/c  
Sequence 19, Application US/09230371A  
Patent No. 6348586  
GENERAL INFORMATION:  
APPLICANT: Chang, Yuan  
APPLICANT: Bohenzky, Roy A  
APPLICANT: Russo, James J  
APPLICANT: Edelman, Isidore S  
APPLICANT: Moore, Patrick S  
TITLE OF INVENTION: UNIQUE ASSOCIATED KAPOSI'S SARCOMA VIRUS SEQUENCES AND  
USES THEREOF  
FILE REFERENCE: 45185-G-PCT-US  
CURRENT APPLICATION NUMBER: US/09/230,371A  
CURRENT FILING DATE: 1999-11-17  
PRIOR APPLICATION NUMBER: PCT/US97/13346  
PRIOR FILING DATE: 1997-07-22  
NUMBER OF SEQ ID NOS: 30  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 19  
LENGTH: 35100  
TYPE: DNA  
ORGANISM: Kaposi's sarcoma-associated herpesvirus  
US-09-230-371A-19

Query Match 1.0%; Score 19; DB 4; Length 35100;  
Best Local Similarity 100.0%; Pred. No. 26;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1351 CTGCCATGGGGTTTGGCAA 1369  
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DB 13366 CTGCCATGGGGTTTGGCAA 13348

## RESULT 10

US-08-329-704-3  
Sequence 3, Application US/08329704  
Patent No. 5786210  
GENERAL INFORMATION:  
APPLICANT: Kelnner, Gregory S.  
APPLICANT: Kennedy, Jacqueline L.  
APPLICANT: Zlotnik, Albert  
TITLE OF INVENTION: MAMMALIAN THYMOKINE GENES  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: DNAX Research Institute  
STREET: 901 California Avenue  
CITY: Palo Alto  
STATE: California  
COUNTRY: USA  
ZIP: 94304-1104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/329,704  
FILING DATE: 25-OCT-1994  
CLASSIFICATION: 436  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/193,483  
FILING DATE: 08-FEB-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/231,421  
FILING DATE: 22-APR-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Ching, Edwin P.  
REGISTRATION NUMBER: 34,090  
REFERENCE/DOCKET NUMBER: DX0430K1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-852-9196  
TELEFAX: 415-496-1200  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 562 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 15..356  
US-08-329-704-3

Query Match 1.0%; Score 18; DB 1; Length 562;  
Best Local Similarity 100.0%; Pred. No. 84;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 172 TCCTGGCCCTCCTTGCCA 189  
|||||  
DB 28 TCCTGGCCCTCCTTGCCA 45

## RESULT 11

US-08-472-604-3  
Sequence 3, Application US/08472604  
Patent No. 5877285  
GENERAL INFORMATION:  
APPLICANT: Kelnner, Gregory S.  
APPLICANT: Kennedy, Jacqueline L.

APPLICANT: Zlotnik, Albert  
TITLE OF INVENTION: MAMMALIAN THYMOKINE GENES  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: DNAX Research Institute  
STREET: 901 California Avenue  
CITY: Palo Alto  
STATE: California  
COUNTRY: USA  
ZIP: 94304-1104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/472,604  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/329,704  
FILING DATE: 25-OCT-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/231,421  
FILING DATE: 22-APR-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/193,483  
FILING DATE: 08-FEB-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Ching, Edwin P.  
REGISTRATION NUMBER: 34,090  
REFERENCE/DOCKET NUMBER: DX0430K1GB  
TELEPHONE: 415-852-9196  
TELEFAX: 415-852-9196  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 562 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: CDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 15..356  
US-08-472-604-3

Query Match 1.0%; Score 18; DB 2; Length 562;  
Best Local Similarity 100.0%; Pred. No. 84;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 172 TCCTGGCCCTCCTTGGCA 189  
|||||  
DB 28 TCCTGGCCCTCCTTGGCA 45

RESULT 12  
US-08-486-117-3  
Sequence 3, Application US/08486117  
Patent No. 5985580  
GENERAL INFORMATION:  
APPLICANT: Keiner, Gregory S.  
APPLICANT: Kennedy, Jacqueline L.  
APPLICANT: Zlotnik, Albert  
TITLE OF INVENTION: MAMMALIAN THYMOKINE GENES  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: DNAX Research Institute  
STREET: 901 California Avenue  
CITY: Palo Alto  
STATE: California  
COUNTRY: USA  
ZIP: 94304-1104

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/486,117  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/329,704  
FILING DATE: 25-OCT-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/231,421  
FILING DATE: 22-APR-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/193,483  
FILING DATE: 08-FEB-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Ching, Edwin P.  
REGISTRATION NUMBER: 34,090  
REFERENCE/DOCKET NUMBER: DX0430K1GC  
TELEPHONE: 415-852-9196  
TELEFAX: 415-496-1200  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 562 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: CDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 15..356  
US-08-486-117-3

Query Match 1.0%; Score 18; DB 2; Length 562;  
Best Local Similarity 100.0%; Pred. No. 84;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 172 TCCTGGCCCTCCTTGGCA 189  
|||||  
DB 28 TCCTGGCCCTCCTTGGCA 45

RESULT 13  
US-08-477-537-3  
Sequence 3, Application US/08477537  
Patent No. 6245329  
GENERAL INFORMATION:  
APPLICANT: Keiner, Gregory S.  
APPLICANT: Kennedy, Jacqueline L.  
APPLICANT: Zlotnik, Albert  
TITLE OF INVENTION: MAMMALIAN THYMOKINE GENES  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: DNAX Research Institute  
STREET: 901 California Avenue  
CITY: Palo Alto  
STATE: California  
COUNTRY: USA  
ZIP: 94304-1104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/477,537  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:

Mon Dec 30 09:16:08 2002

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; APPLICATION NUMBER: US 08/329,704
; FILING DATE: 25-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/231,421
; FILING DATE: 22-APR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/193,483
; FILING DATE: 08-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Ching, Edwin P.
; REGISTRATION NUMBER: 34,090
; REFERENCE/DOCKET NUMBER: EX0430K1CD
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-852-9196
; TELEFAX: 415-496-1200
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 562 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 15..356
; US-08-477-537-3

Query Match 1.0% Score 18; DB 4; Length 562;
Best Local Similarity 100.0%; Pred. No. 84;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 172 TCCTGGCCCTCTCTGGCA 189
   |||||
Db 28 TCCTGGCCCTCTCTGGCA 45

RESULT 14
US-09-149-476-232
; Sequence 232, Application US/09149476
; Patent No. 6420526
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 186 Human Secreted proteins
; FILE REFERENCE: P2002P1
; CURRENT APPLICATION NUMBER: US/09/149,476
; CURRENT FILING DATE: 1998-09-08
; EARLIER APPLICATION NUMBER: PCT/US98/04493
; EARLIER FILING DATE: 1998-03-06
; EARLIER APPLICATION NUMBER: 60/040,162
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,333
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/038,621
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,626
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,334
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,336
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,163
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/047,600
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,615
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,597
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,502
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,633
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,583
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,617
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,618
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,503
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,592
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,581
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,584
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,500
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,587
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,492
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,598
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,613
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,582
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,596
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,612
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,632
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,601
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/043,580
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,568
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,314
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,569
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,311
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,671
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,674
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,669
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,312
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,313
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,672
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,315
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/048,974
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/056,886
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,877
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,889
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,893
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,630
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,878
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,662
; EARLIER FILING DATE: 1997-08-22
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; EARLIER APPLICATION NUMBER: 60/056,872
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,882
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,637
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,903
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,888
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,879
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,880
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,894
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,911
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,636
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,874
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,910
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,864
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,631
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,845
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,892
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/057,761
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/047,595
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,599
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,588
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,585
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,586
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,590
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,594
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,589
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,593
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,614
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/043,578
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,576
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/047,501
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/043,670
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/056,632
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,664
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,876
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,881
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,909
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,875
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; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,862
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,887
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,908
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/048,964
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/057,650
; EARLIER FILING DATE: 1997-09-05
; EARLIER APPLICATION NUMBER: 60/056,884
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/057,669
; EARLIER FILING DATE: 1997-09-05
; EARLIER APPLICATION NUMBER: 60/049,610
; EARLIER FILING DATE: 1997-06-13
; EARLIER APPLICATION NUMBER: 60/061,060
; EARLIER FILING DATE: 1997-10-02
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Query Match 1.0%; Score 18; DB 4; Length 629;
Best Local Similarity 100.0%; Pred. No. 84;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1859 AGCTGAAAAA 1876
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Db 569 AGCTGAAAAA 586
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## RESULT 15

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US-09-328-111-342/c
; Sequence 342, Application US/09328111
; Patent No. 6262333
; GENERAL INFORMATION:
; APPLICANT: Endege, Wilson O.
; APPLICANT: Steinmann, Kathleen E.
; APPLICANT: Astle, Jon H.
; APPLICANT: Burgess, Christopher C.
; APPLICANT: Rushnell, Steven E.
; APPLICANT: Carroll III, Eddie
; APPLICANT: Catino, Theodore J.
; APPLICANT: Derti, Adnan
; APPLICANT: Ford, Donna M.
; APPLICANT: Lewis, Marcia E.
; APPLICANT: Monahan, John E.
; APPLICANT: Schlegel, Robert
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; FILE REFERENCE: CCD-257 (US)
; CURRENT APPLICATION NUMBER: US/09/328,111
; CURRENT FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: US 60/088,801
; EARLIER FILING DATE: 1998-06-10
; NUMBER OF SEQ ID NOS: 850
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 342
; LENGTH: 669
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(669)
; OTHER INFORMATION: n = A,T,C or G
US-09-328-111-342
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Query Match 1.0%; Score 18; DB 4; Length 669;
Best Local Similarity 100.0%; Pred. No. 84;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1859 AGCTGAAAAA 1876
      |||||
Db 43 AGCTGAAAAA 26
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## RESULT 16

US-09-276-531-71/c  
; Sequence 71, Application US/09276531  
; Patent No. 6183968  
; GENERAL INFORMATION:

; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Reddy, Roopa  
; APPLICANT: Guesler, Karl J.  
; APPLICANT: Baughn, Mariah R.  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF GENES ENCODING  
; TITLE OF INVENTION: RECEPTORS AND PROTEINS ASSOCIATED WITH CELL PROLIFERATION  
; NUMBER OF SEQUENCES: 134  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/276,531  
; FILING DATE: Herewith

; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/079,677  
; FILING DATE: March 27, 1998

; ATTORNEY/AGENT INFORMATION:  
; NAME: LYNN E. MURRY, Ph.D.  
; REGISTRATION NUMBER: 42,918  
; REFERENCE/DOCKET NUMBER: PA-0008 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 71:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 759 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: BRAITUT07  
; CLONE: 1506088

US-09-276-531-71

Query Match 1.0%; Score 18; DB 4; Length 759;  
Best Local Similarity 100.0%; Pred. No. 83;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1855 AATCAGCTGAATAAAAAA 1872

DB 641 AATCAGCTGAATAAAAAA 624

## RESULT 17

US-08-567-816A-1  
; Sequence 1, Application US/08567816A  
; Patent No. 5780268  
; GENERAL INFORMATION:

; APPLICANT: Coleman, Roger  
; APPLICANT: Guesler, Karl P.  
; APPLICANT: Sellhammer, Jeffrey J.  
; TITLE OF INVENTION: A NEW CHEMOKINE EXPRESSED IN A MIXED  
; TITLE OF INVENTION: LYMPHOCYTE REACTION

; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/567,816A  
; FILING DATE: December 6, 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0044 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 768 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; IMMEDIATE SOURCE:  
; LIBRARY: TMLR  
; CLONE: 292810  
; US-08-567-816A-1

Query Match 1.0%; Score 18; DB 1; Length 768;  
Best Local Similarity 100.0%; Pred. No. 83;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 172 TCCTGGCCCTCTTGGCA 189

DB 231 TCCYGGCCCTCTTGGCA 248

## RESULT 18

US-09-288-143-52  
; Sequence 52, Application US/09288143  
; Patent No. 6433139  
; GENERAL INFORMATION:  
; APPLICANT: Brewer et al.  
; TITLE OF INVENTION: 53 Human Secreted Proteins  
; FILE REFERENCE: PZ018P1  
; CURRENT APPLICATION NUMBER: US/09/288,143  
; CURRENT FILING DATE: 1999-04-08  
; EARLIER APPLICATION NUMBER: PCT/US98/21142  
; EARLIER FILING DATE: 1998-10-08  
; EARLIER APPLICATION NUMBER: 60/061,463  
; EARLIER FILING DATE: 1997-10-09  
; EARLIER APPLICATION NUMBER: 60/061,529  
; EARLIER FILING DATE: 1997-10-09  
; EARLIER APPLICATION NUMBER: 60/071,498  
; EARLIER FILING DATE: 1997-10-09  
; EARLIER APPLICATION NUMBER: 60/061,527  
; EARLIER FILING DATE: 1997-10-09  
; EARLIER APPLICATION NUMBER: 60/061,536  
; EARLIER FILING DATE: 1997-10-09  
; EARLIER APPLICATION NUMBER: 60/061,532  
; EARLIER FILING DATE: 1997-10-09  
; NUMBER OF SEQ ID NOS: 219  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 52  
; LENGTH: 979  
; TYPE: DNA



RESULT 22  
PCT-US92-06532-2  
; Sequence 2, Application PC/TUS9206532  
; GENERAL INFORMATION:  
; APPLICANT: Krause, James E.  
; TITLE OF INVENTION: Human Substance P Receptor  
; NUMBER OF SEQUENCES: 7  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Scott J. Meyer, Monsanto Co., A3SD  
; STREET: 800 N. Lindbergh Blvd.  
; CITY: St. Louis  
; STATE: Missouri  
; COUNTRY: U.S.A.  
; ZIP: 63167  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US92/06532  
; FILING DATE: 19920805  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Meyer, Scott J.  
; REGISTRATION NUMBER: 25,275  
; REFERENCE/DOCKET NUMBER: 07-24(776)A  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (314)694-3117  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1766 base pairs  
; TYPE: NUCLEIC ACID  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 211..1431  
PCT-US92-06532-2

Query Match 1.0%; Score 18; DB 5; Length 1766;  
Best Local Similarity 100.0%; Pred. No. 81;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1174 GCCGCTGGAGACCA 1191  
|||||  
DB 1265 GCCGCTGGAGACCA 1282

RESULT 23  
US-09-364-230-19  
; Sequence 19, Application US/09364230  
; Patent No. 6348339  
; GENERAL INFORMATION:  
; APPLICANT: Cahoon, Rebecca E.  
; APPLICANT: Hitz, William D.  
; APPLICANT: Kinney, Anthony J.  
; APPLICANT: Rafalski, J. Antoni  
; TITLE OF INVENTION: Enzymes Involved in Degradation of Branched-Chain Amino Acids  
; FILE REFERENCE: BB-1178  
; CURRENT APPLICATION NUMBER: US/09/364,230  
; CURRENT FILING DATE: 1999-07-29  
; EARLIER APPLICATION NUMBER: 60/094,990  
; EARLIER FILING DATE: July 31, 1998  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: Microsoft Office 97  
; SEQ ID NO 19  
; LENGTH: 1797  
; TYPE: DNA  
; ORGANISM: Oryza sativa

US-09-364-230-19

Query Match 1.0%; Score 18; DB 4; Length 1797;  
Best Local Similarity 100.0%; Pred. No. 80;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1859 AGCTGAAAAA 1876  
|||||  
DB 1770 AGCTGAAAAA 1787

RESULT 24  
US-09-123-912-88  
; Sequence 88, Application US/09123912A  
; Patent No. 6312695  
; GENERAL INFORMATION:  
; APPLICANT: Reed, Steven G.  
; APPLICANT: Wang, Tongtong  
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY OF LUNG CANCER  
; FILE REFERENCE: 210121.455C1  
; CURRENT APPLICATION NUMBER: US/09/123,912A  
; CURRENT FILING DATE: 1998-07-27  
; PRIOR APPLICATION NUMBER: 09/040,802  
; PRIOR FILING DATE: 1998-03-18  
; NUMBER OF SEQ ID NOS: 114  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 88  
; LENGTH: 1844  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-123-912-88

Query Match 1.0%; Score 18; DB 4; Length 1844;  
Best Local Similarity 100.0%; Pred. No. 80;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1859 AGCTGAAAAA 1876  
|||||  
DB 1816 AGCTGAAAAA 1833

RESULT 25  
US-09-643-597-88  
; Sequence 88, Application US/09643597  
; Patent No. 6426072  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Hosken, Nancy  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Li, Samuel X.  
; APPLICANT: Wang, AiJun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: McNeill, Patricia D.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; CURRENT FILING DATE: 2000-08-21  
; CURRENT APPLICATION NUMBER: US/09/643,597  
; CURRENT FILING DATE: 2000-08-21  
; NUMBER OF SEQ ID NOS: 369  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 88  
; LENGTH: 1844  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-643-597-88

Query Match 1.0%; Score 18; DB 4; Length 1844;  
Best Local Similarity 100.0%; Pred. No. 80;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1859 ACCTGATGAAAAA 1876  
Db 1816 AGCTGAAAAA 1833

## RESULT 26

US-08-837-199A-9

; Sequence 9, Application US/08837199A

; Patent No. 6455277

; GENERAL INFORMATION:

; APPLICANT: FOX, GARY M.

; APPLICANT: JING, SHUQIAN

; APPLICANT: WEN, DUANZHI

; TITLE OF INVENTION: GLIAL CELL LINE-DERIVED NEUROTROPHIC FACTOR RECEPTOR

; FILE REFERENCE: A-401C

; CURRENT APPLICATION NUMBER: US/08/837,199A

; CURRENT FILING DATE: 1997-04-14

; PRIOR APPLICATION NUMBER: US 60/015,907

; PRIOR FILING DATE: 1996-04-22

; PRIOR APPLICATION NUMBER: US 60/017,221

; PRIOR FILING DATE: 1996-05-09

; NUMBER OF SEQ ID NOS: 47

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 9

; LENGTH: 1927

; TYPE: DNA

; ORGANISM: HUMAN

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (538)..(1926)

; OTHER INFORMATION:

; NAME/KEY: misc\_feature

; LOCATION: (1)..(537)

; OTHER INFORMATION: No. 6455277e= "1 to 537 is -235 to 301 of Figure 5 2lacon"

; NAME/KEY: misc\_feature

; LOCATION: (550)..(550)

; OTHER INFORMATION: N in position 550 indicates any nucleic acid

US-08-837-199A-9

## Query Match

Best Local Similarity 1.0%; Score 18; DB 4; Length 1927;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 405 AGCTGGCATCCGCCCTG 422

Db 718 AGCTGGCATCCGCCCTG 735

## RESULT 27

US-08-837-199A-40

; Sequence 40, Application US/08837199A

; Patent No. 6455277

; GENERAL INFORMATION:

; APPLICANT: FOX, GARY M.

; APPLICANT: JING, SHUQIAN

; APPLICANT: WEN, DUANZHI

; TITLE OF INVENTION: GLIAL CELL LINE-DERIVED NEUROTROPHIC FACTOR RECEPTOR

; FILE REFERENCE: A-401C

; CURRENT APPLICATION NUMBER: US/08/837,199A

; CURRENT FILING DATE: 1997-04-14

; PRIOR APPLICATION NUMBER: US 60/015,907

; PRIOR FILING DATE: 1996-04-22

; PRIOR APPLICATION NUMBER: US 60/017,221

; PRIOR FILING DATE: 1996-05-09

; NUMBER OF SEQ ID NOS: 47

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 40

; LENGTH: 1927

; TYPE: DNA

; ORGANISM: HUMAN

; FEATURE:

; NAME/KEY: misc\_feature

; LOCATION: (550)..(550)  
; OTHER INFORMATION: N in position 550 indicates any nucleic acid  
US-08-837-199A-40

## Query Match

Best Local Similarity 1.0%; Score 18; DB 4; Length 1927;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 405 AGCTGGCATCCGCCCTG 422

Db 718 AGCTGGCATCCGCCCTG 735

## RESULT 28

US-08-837-199A-11

; Sequence 11, Application US/08837199A

; Patent No. 6455277

; GENERAL INFORMATION:

; APPLICANT: FOX, GARY M.

; APPLICANT: JING, SHUQIAN

; APPLICANT: WEN, DUANZHI

; TITLE OF INVENTION: GLIAL CELL LINE-DERIVED NEUROTROPHIC FACTOR RECEPTOR

; FILE REFERENCE: A-401C

; CURRENT APPLICATION NUMBER: US/08/837,199A

; CURRENT FILING DATE: 1997-04-14

; PRIOR APPLICATION NUMBER: US 60/015,907

; PRIOR FILING DATE: 1996-04-22

; PRIOR APPLICATION NUMBER: US 60/017,221

; PRIOR FILING DATE: 1996-05-09

; NUMBER OF SEQ ID NOS: 47

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 11

; LENGTH: 1929

; TYPE: DNA

; ORGANISM: HUMAN

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (540)..(1928)

; OTHER INFORMATION:

; NAME/KEY: misc\_feature

; LOCATION: (1)..(539)

; OTHER INFORMATION: No. 6455277e= "1 to 539 is -237 to 301 of Figure 5 2lbccon"

US-08-837-199A-11

## Query Match

Best Local Similarity 1.0%; Score 18; DB 4; Length 1929;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 405 AGCTGGCATCCGCCCTG 422

Db 720 AGCTGGCATCCGCCCTG 737

## RESULT 29

US-08-837-199A-41

; Sequence 41, Application US/08837199A

; Patent No. 6455277

; GENERAL INFORMATION:

; APPLICANT: FOX, GARY M.

; APPLICANT: JING, SHUQIAN

; APPLICANT: WEN, DUANZHI

; TITLE OF INVENTION: GLIAL CELL LINE-DERIVED NEUROTROPHIC FACTOR RECEPTOR

; FILE REFERENCE: A-401C

; CURRENT APPLICATION NUMBER: US/08/837,199A

; CURRENT FILING DATE: 1997-04-14

; PRIOR APPLICATION NUMBER: US 60/015,907

; PRIOR FILING DATE: 1996-04-22

; PRIOR APPLICATION NUMBER: US 60/017,221

; PRIOR FILING DATE: 1996-05-09

; NUMBER OF SEQ ID NOS: 47

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 41

; LENGTH: 1929



; TYPE: DNA  
; ORGANISM: HUMAN  
US-08-837-199A-41

Query Match 1.0%; Score 18; DB 4; Length 1929;  
Best Local Similarity 100.0%; Pred. No. 80;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 405 AGCCTGGCATCCGGCCTG 422  
|||||  
Db 720 AGCCTGGCATCCGGCCTG 737

RESULT 30

US-08-837-199A-1  
; Sequence 1, Application US/08837199A

; Patent No. 6455277

; GENERAL INFORMATION:

; APPLICANT: FOX, GARY M.

; APPLICANT: JING, SHUQIAN

; APPLICANT: WEN, DUANZHI

; TITLE OF INVENTION: GLIAL CELL LINE-DERIVED NEUROTROPHIC FACTOR RECEPTOR

; FILE REFERENCE: A-401C

; CURRENT APPLICATION NUMBER: US/08/837,199A

; CURRENT FILING DATE: 1997-04-14

; PRIOR APPLICATION NUMBER: US 60/015,907

; PRIOR FILING DATE: 1996-04-22

; PRIOR APPLICATION NUMBER: US 60/017,221

; PRIOR FILING DATE: 1996-05-09

; NUMBER OF SEQ ID NOS: 47

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 1

; LENGTH: 2568

; TYPE: DNA

; ORGANISM: HUMAN

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (540)..(1934)

; OTHER INFORMATION:

; NAME/KEY: misc\_feature

; LOCATION: (2078)..(2078)

; OTHER INFORMATION: N in position 2078 indicates a position of divergence between dif

; OTHER INFORMATION: ferent receptor clones

; NAME/KEY: misc\_feature

; LOCATION: (2107)..(2107)

; OTHER INFORMATION: N in position 2107 indicates a position of divergence between dif

; OTHER INFORMATION: ferent receptor clones

; NAME/KEY: misc\_feature

; LOCATION: (2241)..(2241)

; OTHER INFORMATION: N in position 2241 indicates a position of divergence between dif

; OTHER INFORMATION: ferent receptor clones

; NAME/KEY: misc\_feature

; LOCATION: (2250)..(2250)

; OTHER INFORMATION: N in position 2250 indicates a position of divergence between dif

; OTHER INFORMATION: ferent receptor clones

; NAME/KEY: misc\_feature

; LOCATION: (2256)..(2294)

; OTHER INFORMATION: N in positions 2256 to 2294 indicates positions of divergence be

; OTHER INFORMATION: tween different receptor clones

US-08-837-199A-1

Query Match 1.0%; Score 18; DB 4; Length 2568;

Best Local Similarity 100.0%; Pred. No. 79;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 405 AGCCTGGCATCCGGCCTG 422  
|||||  
Db 720 AGCCTGGCATCCGGCCTG 737

RESULT 31

US-08-837-199A-5

; Sequence 5, Application US/08837199A

; Patent No. 6455277

; GENERAL INFORMATION:

; APPLICANT: FOX, GARY M.

; APPLICANT: JING, SHUQIAN

; APPLICANT: WEN, DUANZHI

; TITLE OF INVENTION: GLIAL CELL LINE-DERIVED NEUROTROPHIC FACTOR RECEPTOR

; FILE REFERENCE: A-401C

; CURRENT APPLICATION NUMBER: US/08/837,199A

; CURRENT FILING DATE: 1997-04-14

; PRIOR APPLICATION NUMBER: US 60/015,907

; PRIOR FILING DATE: 1996-04-22

; PRIOR APPLICATION NUMBER: US 60/017,221

; PRIOR FILING DATE: 1996-05-09

; NUMBER OF SEQ ID NOS: 47

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 5

; LENGTH: 3209

; TYPE: DNA

; ORGANISM: HUMAN

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (540)..(1937)

; OTHER INFORMATION:

; NAME/KEY: misc\_feature

; LOCATION: (1)..(510)

; OTHER INFORMATION: note=1 to 510 is -237 to 272 of Fig 5 Hsgr-21bf"

; NAME/KEY: misc\_feature

; LOCATION: (1)..(539)

; OTHER INFORMATION: note=1 to 539 is -237 to 301 of Fig 5 Gdnfr"

; NAME/KEY: misc\_feature

; LOCATION: (2078)..(2078)

; OTHER INFORMATION: N in position 2078 indicates a position of divergence between

; OTHER INFORMATION: ferent receptor clones

; NAME/KEY: misc\_feature

; LOCATION: (2256)..(2294)

; OTHER INFORMATION: N in positions 2256 to 2294 indicates positions of divergence

; OTHER INFORMATION: tween different receptor clones

; NAME/KEY: misc\_feature

; LOCATION: (1091)..(1091)

; OTHER INFORMATION: N in position 1091 indicates any nucleic acid

US-08-837-199A-5

Query Match

Best Local Similarity 100.0%; Score 18; DB 4; Length 3209;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 405 AGCCTGGCATCCGGCCTG 422

|||||

Db 720 AGCCTGGCATCCGGCCTG 737

RESULT 32

US-08-837-199A-37

; Sequence 37, Application US/08837199A

; Patent No. 6455277

; GENERAL INFORMATION:

; APPLICANT: FOX, GARY M.

; APPLICANT: JING, SHUQIAN

; APPLICANT: WEN, DUANZHI

; TITLE OF INVENTION: GLIAL CELL LINE-DERIVED NEUROTROPHIC FACTOR RECEPTOR

; FILE REFERENCE: A-401C

; CURRENT APPLICATION NUMBER: US/08/837,199A

; CURRENT FILING DATE: 1997-04-14

; PRIOR APPLICATION NUMBER: US 60/015,907

; PRIOR FILING DATE: 1996-04-22

; PRIOR APPLICATION NUMBER: US 60/017,221

; PRIOR FILING DATE: 1996-05-09

; NUMBER OF SEQ ID NOS: 47

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 37

; LENGTH: 3209

; TYPE: DNA

; ORGANISM: HUMAN

FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1091)..(1091)  
OTHER INFORMATION: N in position 1091 indicates any nucleic acid.  
NAME/KEY: misc\_feature  
LOCATION: (2078)..(2078)  
OTHER INFORMATION: N in position 2078 indicates a position of divergence between dif  
OTHER INFORMATION: ferent receptor clones.  
NAME/KEY: misc\_feature  
LOCATION: (2256)..(2294)  
OTHER INFORMATION: N in positions 2256 to 2294 indicates positions of divergence bet  
OTHER INFORMATION: ween different receptor clones.  
US-08-837-199A-37

Query Match 1.0%; Score 18; DB 4; Length 3209;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 405 AGCCTGGCATCGGCGCTG 422  
|||||  
Db 720 AGCCTGGCATCGGCGCTG 737

## RESULT 33

US-09-651-011A-3  
Sequence 3, Application US/09651011A  
Patent No. 6346416

GENERAL INFORMATION:  
APPLICANT: Nicholas M. Dean  
TITLE OF INVENTION: ANTISENSE MODULATION OF HPK/GCK-LIKE KINASE EXPRESSION  
FILE REFERENCE: RFS-0168  
CURRENT APPLICATION NUMBER: US/09/651,011A  
CURRENT FILING DATE: 2000-08-29  
NUMBER OF SEQ ID NOS: 49  
SEQ ID NO 3  
LENGTH: 4266  
TYPE: DNA  
ORGANISM: Homo sapiens

FEATURE:  
NAME/KEY: CDS  
LOCATION: (1)...(3528)  
US-09-651-011A-3

Query Match 1.0%; Score 18; DB 4; Length 4266;  
Best Local Similarity 100.0%; Pred. No. 78;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 248 CCTGAACAGGAGGAGAG 265  
|||||  
Db 889 CCTGAACAGGAGGAGAG 906

## RESULT 34

US-09-513-057C-26  
Sequence 26, Application US/09513057C  
Patent No. 6433251

GENERAL INFORMATION:  
APPLICANT: Wagner, et al.  
TITLE OF INVENTION: GENES REGULATING CIRCADIAN CLOCK FUNCTION AND PHOTOPERIODISM  
FILE REFERENCE: 1505-54357  
CURRENT APPLICATION NUMBER: US/09/513,057C  
CURRENT FILING DATE: 2000-02-24  
NUMBER OF SEQ ID NOS: 35  
SOFTWARE: Patentin version 3.1  
SEQ ID NO 26  
LENGTH: 4478  
TYPE: DNA  
ORGANISM: Oryza sativa

FEATURE:  
NAME/KEY: exon  
LOCATION: (1)..(261)  
OTHER INFORMATION:

NAME/KEY: exon  
LOCATION: (1660)..(2645)  
OTHER INFORMATION:  
NAME/KEY: exon  
LOCATION: (3330)..(3381)  
OTHER INFORMATION:  
NAME/KEY: exon  
LOCATION: (3495)..(4478)  
OTHER INFORMATION:  
NAME/KEY: Intron  
LOCATION: (262)..(1659)  
OTHER INFORMATION:  
NAME/KEY: Intron  
LOCATION: (2646)..(3329)  
OTHER INFORMATION:  
NAME/KEY: Intron  
LOCATION: (3382)..(3494)  
OTHER INFORMATION:  
US-09-513-057C-26

Query Match 1.0%; Score 18; DB 4; Length 4478;  
Best Local Similarity 100.0%; Pred. No. 78;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 168 GTGCTCCTGGCCCTCCTT 185  
|||||  
Db 4033 GTGCTCCTGGCCCTCCTT 4050

## RESULT 35

US-09-484-970B-106  
Sequence 106, Application US/09484970B  
Patent No. 6426186

GENERAL INFORMATION:  
APPLICANT: Jones, Karen A.  
APPLICANT: Volkmut, Wayne  
TITLE OF INVENTION: BONE REMODELING GENES  
FILE REFERENCE: PB-0014 US  
CURRENT APPLICATION NUMBER: US/09/484,970B  
CURRENT FILING DATE: 2000-01-18  
NUMBER OF SEQ ID NOS: 172  
SOFTWARE: PERL Program  
SEQ ID NO 106  
LENGTH: 4822  
TYPE: DNA  
ORGANISM: Homo sapiens

FEATURE:  
NAME/KEY: misc\_feature  
OTHER INFORMATION: Incyte ID No. 6426186 444857.15CB1  
NAME/KEY: unsure  
LOCATION: 33, 51, 79, 211, 369, 483-484, 731, 748, 4803, 4805-4806, 4808-4809,  
OTHER INFORMATION: a, t, c, g, or other  
US-09-484-970B-106

Query Match 1.0%; Score 18; DB 4; Length 4822;  
Best Local Similarity 100.0%; Pred. No. 77;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1294 CCTCACCAGTTTGCTT 1311  
|||||  
Db 2073 CCTCACCAGTTTGCTT 2090

## RESULT 36

US-09-415-946-2

Sequence 2, Application US/09415946  
Patent No. 6376751  
GENERAL INFORMATION:  
APPLICANT: Sung, Z. Renee  
APPLICANT: Aubert, Dominique  
APPLICANT: Chen, Lingjing  
APPLICANT: The Regents of the University of California

;; TITLE OF INVENTION: Nucleic Acids That Control Reproductive Development in  
;; TITLE OF INVENTION: Plants  
;; FILE REFERENCE: 018941-000110US  
;; CURRENT APPLICATION NUMBER: US/09/415,946  
;; CURRENT FILING DATE: 1999-10-08  
;; PRIOR APPLICATION NUMBER: US 09/169,696  
;; PRIOR FILING DATE: 1998-10-09  
;; NUMBER OF SEQ ID NOS: 8  
;; SOFTWARE: PatentIn Ver. 2.1  
;; SEQ ID NO 2  
;; LENGTH: 8648  
;; TYPE: DNA  
;; ORGANISM: Arabidopsis thaliana  
;; FEATURE:  
;; OTHER INFORMATION: EMF1 gene and its promoter region  
;; NAME/KEY: promoter  
;; LOCATION: (1)..(3201)  
;; NAME/KEY: CDS  
;; LOCATION: join(4241..4335, 4448..4623, 4704..4823, 4903..4956,  
;; OTHER INFORMATION: EMBRYONIC FLOWER 1 (EMF1)  
;; NAME/KEY: exon  
;; LOCATION: (3202)..(3265)  
;; OTHER INFORMATION: exon 1  
;; NAME/KEY: intron  
;; LOCATION: (3266)..(4159)  
;; NAME/KEY: exon  
;; LOCATION: (4160)..(4335)  
;; OTHER INFORMATION: exon 2  
;; NAME/KEY: intron  
;; LOCATION: (4336)..(4447)  
;; NAME/KEY: exon  
;; LOCATION: (4448)..(4623)  
;; OTHER INFORMATION: exon 3  
;; NAME/KEY: intron  
;; LOCATION: (4624)..(4703)  
;; NAME/KEY: exon  
;; LOCATION: (4704)..(4823)  
;; OTHER INFORMATION: exon 4  
;; NAME/KEY: intron  
;; LOCATION: (4824)..(4902)  
;; NAME/KEY: exon  
;; LOCATION: (4903)..(4956)  
;; OTHER INFORMATION: exon 5  
;; NAME/KEY: intron  
;; LOCATION: (4957)..(5045)  
;; NAME/KEY: exon  
;; LOCATION: (5046)..(6307)  
;; OTHER INFORMATION: exon 6  
;; NAME/KEY: intron  
;; LOCATION: (6308)..(6447)  
;; NAME/KEY: exon  
;; LOCATION: (6448)..(8065)  
;; OTHER INFORMATION: exon 7  
;; NAME/KEY: intron  
;; LOCATION: (8066)..(8300)  
;; NAME/KEY: exon  
;; LOCATION: (8301)..(8648)  
;; OTHER INFORMATION: exon 8  
;;  
US-09-415-946-2

Query Match 1.0%; Score 18; DB 4; Length 8648;  
Best Local Similarity 100.0%; Pred. No. 76;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1840 GGGTATTAAATATGAAT 1957  
|||||  
DB 1130 GGGTATTAAATATGAAT 1147

RESULT 37  
US-08-476-866-20  
; Sequence 20, Application US/08476866  
; Patent No. 5994339

;; GENERAL INFORMATION:  
;; APPLICANT: CRAPO, JAMES D.  
;; APPLICANT: FRIDOVICH, IRWIN  
;; APPLICANT: OURY, TIM  
;; APPLICANT: DAY, BRIAN J.  
;; APPLICANT: FOLZ, RODNEY J.  
;; APPLICANT: FREEMAN, BRUCE A.  
;; TITLE OF INVENTION: SUPEROXIDE DISMUTASE AND MIMETICS THEREOF  
;; NUMBER OF SEQUENCES: 24  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: NIXON & VANDERHYE P.C.  
;; STREET: 1100 NORTH GLEBE ROAD  
;; CITY: ARLINGTON  
;; STATE: VIRGINIA  
;; COUNTRY: U.S.A.  
;; ZIP: 22201-4714  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: PatentIn Release #1.0, Version #1.25  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/476,866  
;; FILING DATE:  
;; CLASSIFICATION: 424  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US 08/322,766  
;; FILING DATE: 13-OCT-1994  
;; APPLICATION NUMBER: US 08/136,207  
;; FILING DATE: 15-OCT-1993  
;; CLASSIFICATION: 424  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: WILSON, MARY J.  
;; REGISTRATION NUMBER: 32,955  
;; REFERENCE/DOCKET NUMBER: 1579-74  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (703) 816-4000  
;; TELEFAX: (703) 816-4100  
;; TELEX: 200797 NIXN UR  
;; INFORMATION FOR SEQ ID NO: 20:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 10079 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: DNA (genomic)  
;; FEATURE:  
;; NAME/KEY: CDS  
;; LOCATION: 5086..5803  
;;  
US-08-476-866-20

Query Match 1.0%; Score 18; DB 2; Length 10079;  
Best Local Similarity 100.0%; Pred. No. 75;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1543 CTGCTGTGCCACCTGTCT 1560  
|||||  
DB 3808 CTGCTGTGCCACCTGTCT 3825

RESULT 38  
US-09-415-946-1  
; Sequence 1, Application US/09415946  
; Patent No. 6376751  
;; GENERAL INFORMATION:  
;; APPLICANT: Sung, Z. Renee  
;; APPLICANT: Aubert, Dominique  
;; APPLICANT: Chen, Lingjing  
;; APPLICANT: The Regents of the University of California  
;; TITLE OF INVENTION: Nucleic Acids That Control Reproductive Development in  
;; TITLE OF INVENTION: Plants  
;; FILE REFERENCE: 018941-000110US  
;; CURRENT APPLICATION NUMBER: US/09/415,946

```
; CURRENT FILING DATE: 1999-10-08
; PRIOR APPLICATION NUMBER: US 09/169,696
; PRIOR FILING DATE: 1998-10-09
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 17341
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; OTHER INFORMATION: genomic DNA (Ecotype Columbia) from CD82 clone
; NAME/KEY: promoter
; LOCATION: (1)..(3201)
; NAME/KEY: CDS
; LOCATION: join(4241..4335, 4448..4623, 4704..4823, 4903..4956,
; OTHER INFORMATION: EMBRYONIC FLOWER 1 (EMF1)
; NAME/KEY: exon
; LOCATION: (3202)..(3265)
; OTHER INFORMATION: exon 1
; NAME/KEY: intron
; LOCATION: (3266)..(4159)
; NAME/KEY: exon
; LOCATION: (4160)..(4335)
; OTHER INFORMATION: exon 2
; NAME/KEY: intron
; LOCATION: (4336)..(4447)
; NAME/KEY: exon
; LOCATION: (4448)..(4623)
; OTHER INFORMATION: exon 3
; NAME/KEY: intron
; LOCATION: (4624)..(4703)
; NAME/KEY: exon
; LOCATION: (4704)..(4823)
; OTHER INFORMATION: exon 4
; NAME/KEY: intron
; LOCATION: (4824)..(4902)
; NAME/KEY: exon
; LOCATION: (4903)..(4956)
; OTHER INFORMATION: exon 5
; NAME/KEY: intron
; LOCATION: (4957)..(5045)
; NAME/KEY: exon
; LOCATION: (5046)..(6307)
; OTHER INFORMATION: exon 6
; NAME/KEY: intron
; LOCATION: (6308)..(6447)
; NAME/KEY: exon
; LOCATION: (6448)..(8065)
; OTHER INFORMATION: exon 7
; NAME/KEY: intron
; LOCATION: (8066)..(8300)
; NAME/KEY: exon
; LOCATION: (8301)..(8648)
; OTHER INFORMATION: exon 8
; US-09-415-946-1
```

```
Query Match
Best Local Similarity 100.0%; Score 18; DB 4; Length 17341;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1840 GGGTATTAAATATGAAT 1857
Db 1130 GGGTATTAAATATGAAT 1147
|||||
```

```
RESULT 39
US-09-797-906-3
; Sequence 3, Application US/09797906
; Patent No. 6329188
```

```
; GENERAL INFORMATION:
; APPLICANT: Zianghe YAN, Karen A. KETCHUM, Valentina DIFRANCESCO, Ellen M. BEASLEY
; TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS,
; NUCLEIC ACID MOLECULES ENCODING HUMAN PROTEASE PROTEINS, AND
```

```
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: C1001151CIP
; CURRENT APPLICATION NUMBER: US/09/797,906
; CURRENT FILING DATE: 2001-03-05
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 84495
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(84495)
; OTHER INFORMATION: n = A,T,C or G
; US-09-797-906-3

Query Match
Best Local Similarity 100.0%; Score 18; DB 4; Length 84495;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1859 AGCTGAAAAA 1876
Db 4080 AGCTGAAAAA 4097
|||||
```

## RESULT 40

```
US-08-342-411A-32
; Sequence 32, Application US/08342411A
; Patent No. 5639616
; GENERAL INFORMATION:
; APPLICANT: LIAO, Shutsung
; APPLICANT: SONG, Ching
; TITLE OF INVENTION: UBIQUITOUS NUCLEAR RECEPTOR:
; COMPOSITIONS AND METHODS
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/342,411A
; FILING DATE: 18-NOV-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: KITCHELL, BARBARA S.
; REGISTRATION NUMBER: 33,928
; REFERENCE/DOCKET NUMBER: ARCD154
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 418-3000
; TELEFAX: (713) 789-2679
; TELEX: 79-0924
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-342-411A-32
```

```
Query Match
Best Local Similarity 100.0%; Score 17; DB 1; Length 29;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1024 CCGTGACCTGAGATC 1040
|||||
```

```

Db      13  CCTGTGACCTGAGGATC 29

RESULT 41
PCT-US94-12883-32
; Sequence 32, Application PC/TUS9412883
; GENERAL INFORMATION:
; APPLICANT:          UBIQUITOUS NUCLEAR RECEPTOR: COMPOSITIONS AND
; TITLE OF INVENTION:
; NUMBER OF SEQUENCES: 38
; TITLE OF INVENTION: METHODS
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: United States of America
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS/ASCII
; SOFTWARE: Patent in Release #1.0, Version
; SOFTWARE: #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/12883
; FILING DATE: Concurrently Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/152,003
; FILING DATE: 10-NOV-1993
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: BARBARA S. KITCHELL
; REGISTRATION NUMBER: 33,928
; REFERENCE/DOCKET NUMBER: ARCD154p--
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 418-3000
; TELEFAX: (713) 789-2679
; TELEX: 79-0924
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; PCT-US94-12883-32

Query Match      0.9%; Score 17; DB 5; Length 29;
Best Local Similarity 100.0%; Pred. No. 2.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1024 CCTGTGACCTGAGGATC 1040
Db 13 CCTGTGACCTGAGGATC 29
|||||
|||||

RESULT 42
PCT-US93-02612-7/c
; Sequence 7, Application PC/TUS9302612
; GENERAL INFORMATION:
; APPLICANT:          Hesson, Michael
; APPLICANT: Hesson, Thomas
; APPLICANT: Mannarino, Anthony
; TITLE OF INVENTION: Monomeric Platelet-Derived Growth Factor and Prevention of
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Schering-plough Corporation
; STREET: One Giralda Farms
; CITY: Madison
; STATE: New Jersey

```

; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-08-588-258B-21

Query Match 0.9%; Score 17; DB 2; Length 198;  
Best Local Similarity 100.0%; Pred. No. 2.5e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1451 TGCCAGGAGCACATCT 1467  
Db 174 TGCCAGGAGCACATCT 190

## RESULT 44

US-08-460-505-21  
; Sequence 21, Application US/08460505  
; Patent No. 6069296

## GENERAL INFORMATION:

; APPLICANT: Horvitz, Robert H.

; APPLICANT: Koelle, Michael

; TITLE OF INVENTION: REGULATORS OF G-PROTEIN SIGNALLING

; NUMBER OF SEQUENCES: 37

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fish & Richardson P.C.

; STREET: 225 Franklin Street

; CITY: Boston

; STATE: MA

; COUNTRY: USA

; ZIP: 02110-2804

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent in Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/460,505

; FILING DATE: 02-JUN-1995

; CLASSIFICATION: 800

; ATTORNEY/AGENT INFORMATION:

; NAME: Bieker-Brady, Kristina

; REGISTRATION NUMBER: 39,109

; REFERENCE/DOCKET NUMBER: 01997/214001

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 617/542-5070

; TELEFAX: 617/542-8906

; TELEX: 200154

; INFORMATION FOR SEQ ID NO: 21:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 198 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)

US-08-460-505-21

Query Match 0.9%; Score 17; DB 3; Length 198;  
Best Local Similarity 100.0%; Pred. No. 2.5e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1451 TGCCAGGAGCACATCT 1467  
Db 174 TGCCAGGAGCACATCT 190

## RESULT 45

PCT-US96-08295-21

; Sequence 21, Application PC/TUS9608295

; GENERAL INFORMATION:

; APPLICANT: Massachusetts Institute of Technology

; TITLE OF INVENTION: REGULATORS OF G-PROTEIN SIGNALLING

; NUMBER OF SEQUENCES: 41

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fish & Richardson P.C.

; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: PCT/US96/08295

; FILING DATE: 31-MAY-1996

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/588,258

; FILING DATE: 12-JAN-96

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Bieker-Brady, Kristina

; REGISTRATION NUMBER: 39,109

; REFERENCE/DOCKET NUMBER: 01997/216001

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 617/542-5070

; TELEFAX: 617/542-8906

; TELEX: 200154

; INFORMATION FOR SEQ ID NO: 21:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 198 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)

PCT-US96-08295-21

Query Match 0.9%; Score 17; DB 5; Length 198;

Best Local Similarity 100.0%; Pred. No. 2.5e+02;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1451 TGCCAGGAGCACATCT 1467  
Db 174 TGCCAGGAGCACATCT 190

## RESULT 46

US-08-518-878B-34

; Sequence 34, Application US/08518878B

; Patent No. 5702902

; GENERAL INFORMATION:

; APPLICANT: Tartaglia, Louis A.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE

; TREATMENT OF BODY WEIGHT DISORDERS, INCLUDING OBESITY

; NUMBER OF SEQUENCES: 57

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Pennie & Edmonds

; STREET: 1155 Avenue of the Americas

; CITY: New York

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 10036-2711

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent in Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/518,878B

; FILING DATE: 23-AUG-1995

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: Coruzzi, Laura A.

; REGISTRATION NUMBER: 30,742

; REFERENCE/DOCKET NUMBER: 7853-036

us-09-944-896-49.olilo.rni

Mon Dec 30 09:16:08 2002

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 790-9090  
TELEFAX: (212) 869-9741/8864  
TELEX: 66141 PENNIE  
INFORMATION FOR SEQ ID NO: 34:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 457 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: unknown  
US-08-518-878B-34

Query Match 0.9% Score 17; DB 1; Length 457;  
Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1860 GCTGAAAAA 1876  
Db 441 GCTGAAAAA 457

RESULT 47  
US-08-294-522B-35  
Sequence 35, Application US/08294522B  
Patent No. 5741666  
GENERAL INFORMATION:

APPLICANT: Tartaglia, Louis A.  
TITLE OF INVENTION: Compositions and Methods for the  
TREATMENT OF BODY WEIGHT DISORDERS, INCLUDING OBESITY  
NUMBER OF SEQUENCES: 48  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pennie & Edmonds  
STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: New York  
ZIP: 10036-2711

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/294,522B  
FILING DATE: 23-AUG-1994  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Coruzzi, Laura A.  
REGISTRATION NUMBER: 30,742  
REFERENCE/DOCKET NUMBER: 7853-015  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 790-9090  
TELEFAX: (212) 869-8864/9741  
INFORMATION FOR SEQ ID NO: 35:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 457 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: both  
TOPOLOGY: linear  
MOLECULE TYPE: CDNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FEATURE:

NAME/KEY: CDS  
LOCATION: 25...315  
US-08-294-522B-35

Query Match 0.9% Score 17; DB 1; Length 457;  
Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1860 GCTGAAAAA 1876  
Db 441 GCTGAAAAA 457

RESULT 48  
US-08-807-861A-34  
Sequence 34, Application US/08807861A  
Patent No. 5853975  
GENERAL INFORMATION:

APPLICANT: Tartaglia, Louis A.  
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE  
TREATMENT OF BODY WEIGHT DISORDERS, INCLUDING OBESITY  
NUMBER OF SEQUENCES: 64  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pennie & Edmonds LLP  
STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 10036-2711

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/807,861A  
FILING DATE: 26-FEB-1997  
CLASSIFICATION: 514

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/518,878  
FILING DATE: 23-AUG-1995  
APPLICATION NUMBER: US 08/470,868  
FILING DATE: 06-JUN-1995  
APPLICATION NUMBER: US 08/294,522  
FILING DATE: 23-AUG-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Coruzzi, Laura A.  
REGISTRATION NUMBER: 30,742  
REFERENCE/DOCKET NUMBER: 7853-066  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 790-9090  
TELEFAX: (212) 869-9741/8864  
TELEX: 66141 PENNIE

INFORMATION FOR SEQ ID NO: 34:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 457 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: unknown  
US-08-807-861A-34

Query Match 0.9% Score 17; DB 2; Length 457;  
Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1860 GCTGAAAAA 1876  
Db 441 GCTGAAAAA 457

RESULT 49  
US-08-470-868A-34  
Sequence 34, Application US/08470868A  
Patent No. 5861485  
GENERAL INFORMATION:

APPLICANT: Tartaglia, Louis C.  
TITLE OF INVENTION: Compositions and Methods for the  
TREATMENT OF BODY WEIGHT DISORDERS, INCLUDING OBESITY  
NUMBER OF SEQUENCES: 56  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pennie and Edmonds  
STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: New York

```

; COUNTRY: USA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/470,868A
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7853-0031-999
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-8864
; TELEX: 66441 PENNIE
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 457 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; US-08-470-868A-34

```

```

Query Match 0.9%; Score 17; DB 2; Length 457;
Best Local Similarity 100.0%; Pred. No. 2.4e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1860 GCTGAAAAA 1876
Db 441 GCTGAAAAA 457

```

## RESULT 50

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US-09-210-681-34
; Sequence 34, Application US/09210681
; Patent No. 6057109
; GENERAL INFORMATION:
; APPLICANT: Tartaglia, Louis A.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE
; TITILE OF INVENTION: REGULATION OF BODY WEIGHT DISORDERS, INCLUDING OBESITY
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/210,681
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/807,861
; FILING DATE: 26-FEB-1997
; APPLICATION NUMBER: US 08/518,878
; FILING DATE: 23-AUG-1995
; APPLICATION NUMBER: US 08/470,868
; FILING DATE: 06-JUN-1995
; APPLICATION NUMBER: US 08/294,522
; FILING DATE: 23-AUG-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742

```

```

; REFERENCE/DOCKET NUMBER: 7853-066
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-9741/8864
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 457 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; US-09-210-681-34

```

```

Query Match 0.9%; Score 17; DB 3; Length 457;
Best Local Similarity 100.0%; Pred. No. 2.4e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1860 GCTGAAAAA 1876
Db 441 GCTGAAAAA 457

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```

Search completed: December 29, 2002, 01:15:08
Job time : 282 secs

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GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: December 29, 2002, 01:11:38 ; Search time 129 Seconds  
 (without alignments)  
 5907.719 Million cell updates/sec

Title: US-09-944-896-49  
 Perfect score: 1876  
 Sequence: 1 cctctttgcccagccca.....tcagctgaaaaaaaaaaaaa 1876

Scoring table: OLIGO\_NUC  
 Gapop 60.0 , Gapext 60.0

Searched: 363474 seqs, 203117208 residues

Word size : 10

Total number of hits satisfying chosen parameters: 300621

Minimum DB seq length: 0  
 Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Database : Published\_Applications\_NA:\*

- 1: /cgn2\_6/ptodata/2/pubpna/US07\_PUBCOMB.seq:\*
- 2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq:\*
- 3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq:\*
- 4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq:\*
- 5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq:\*
- 6: /cgn2\_6/ptodata/2/pubpna/PCTUS\_PUBCOMB.seq:\*
- 7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq:\*
- 8: /cgn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq:\*
- 9: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq:\*
- 10: /cgn2\_6/ptodata/2/pubpna/US09\_PUBCOMB.seq:\*
- 11: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq:\*
- 12: /cgn2\_6/ptodata/2/pubpna/US10\_PUBCOMB.seq:\*
- 13: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq:\*
- 14: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

| SUMMARIES  |       |               |        | SUMMARIES |                   |
|------------|-------|---------------|--------|-----------|-------------------|
| Result No. | Score | Query Match % | Length | ID        | Description       |
| 1          | 1876  | 100.0         | 1876   | 9         | US-09-944-413-49  |
| 2          | 1876  | 100.0         | 1876   | 9         | US-09-944-403-49  |
| 3          | 1876  | 100.0         | 1876   | 9         | US-09-944-896-49  |
| 4          | 1876  | 100.0         | 1876   | 9         | US-09-944-944-49  |
| 5          | 1876  | 100.0         | 1876   | 10        | US-09-866-028-49  |
| 6          | 1876  | 100.0         | 1876   | 10        | US-09-944-449-49  |
| 7          | 1876  | 100.0         | 1876   | 10        | US-09-944-457-49  |
| 8          | 1876  | 100.0         | 1876   | 10        | US-09-945-587-49  |
| 9          | 1876  | 100.0         | 1876   | 10        | US-09-945-015-49  |
| 10         | 1876  | 100.0         | 1876   | 10        | US-09-944-396-49  |
| 11         | 1876  | 100.0         | 1876   | 10        | US-09-944-097-49  |
| 12         | 1876  | 100.0         | 1876   | 10        | US-09-944-432-49  |
| 13         | 1876  | 100.0         | 1876   | 10        | US-09-943-762-49  |
| 14         | 1876  | 100.0         | 1876   | 10        | US-09-943-762-51  |
| 15         | 1876  | 100.0         | 1876   | 10        | US-09-943-762-52  |
| 16         | 1029  | 54.9          | 1876   | 10        | US-09-943-851A-49 |
| 17         | 1029  | 54.9          | 1923   | 9         | US-10-042-141-12  |
| 18         | 1029  | 54.9          | 1923   | 10        | US-09-726-843-12  |
| 19         | 1008  | 53.7          | 1338   | 10        | US-09-790-264-3   |

|     |     |      |     |    |                     |                    |
|-----|-----|------|-----|----|---------------------|--------------------|
| 20  | 485 | 25.9 | 690 | 10 | US-09-884-441-321   | Sequence 321, Appl |
| 21  | 45  | 2.4  | 45  | 9  | US-09-944-413-53    | Sequence 53, Appl  |
| 22  | 45  | 2.4  | 45  | 9  | US-09-944-403-53    | Sequence 53, Appl  |
| 23  | 45  | 2.4  | 45  | 9  | US-09-944-896-53    | Sequence 53, Appl  |
| 24  | 45  | 2.4  | 45  | 9  | US-09-944-944-53    | Sequence 53, Appl  |
| 25  | 45  | 2.4  | 45  | 10 | US-09-866-028-53    | Sequence 53, Appl  |
| 26  | 45  | 2.4  | 45  | 10 | US-09-944-449-53    | Sequence 53, Appl  |
| 27  | 45  | 2.4  | 45  | 10 | US-09-944-457-53    | Sequence 53, Appl  |
| 28  | 45  | 2.4  | 45  | 10 | US-09-945-587-53    | Sequence 53, Appl  |
| 29  | 45  | 2.4  | 45  | 10 | US-09-945-015-53    | Sequence 53, Appl  |
| 30  | 45  | 2.4  | 45  | 10 | US-09-944-396-53    | Sequence 53, Appl  |
| 31  | 45  | 2.4  | 45  | 10 | US-09-944-097-53    | Sequence 53, Appl  |
| 32  | 45  | 2.4  | 45  | 10 | US-09-944-432-53    | Sequence 53, Appl  |
| 33  | 45  | 2.4  | 45  | 10 | US-09-943-762-53    | Sequence 53, Appl  |
| 34  | 45  | 2.4  | 45  | 10 | US-09-944-654-53    | Sequence 53, Appl  |
| 35  | 45  | 2.4  | 45  | 10 | US-09-943-851A-53   | Sequence 53, Appl  |
| 36  | 30  | 1.6  | 30  | 10 | US-09-790-264-5     | Sequence 5, Appl1  |
| 37  | 27  | 1.4  | 27  | 9  | US-09-944-413-103   | Sequence 103, Appl |
| 38  | 27  | 1.4  | 27  | 9  | US-09-944-403-103   | Sequence 103, Appl |
| 39  | 27  | 1.4  | 27  | 9  | US-09-944-896-103   | Sequence 103, Appl |
| 40  | 27  | 1.4  | 27  | 9  | US-09-944-944-103   | Sequence 103, Appl |
| 41  | 27  | 1.4  | 27  | 10 | US-09-866-028-103   | Sequence 103, Appl |
| 42  | 27  | 1.4  | 27  | 10 | US-09-944-449-103   | Sequence 103, Appl |
| 43  | 27  | 1.4  | 27  | 10 | US-09-944-457-103   | Sequence 103, Appl |
| 44  | 27  | 1.4  | 27  | 10 | US-09-945-587-103   | Sequence 103, Appl |
| 45  | 27  | 1.4  | 27  | 10 | US-09-945-015-103   | Sequence 103, Appl |
| 46  | 27  | 1.4  | 27  | 10 | US-09-944-396-103   | Sequence 103, Appl |
| 47  | 27  | 1.4  | 27  | 10 | US-09-944-097-103   | Sequence 103, Appl |
| 48  | 27  | 1.4  | 27  | 10 | US-09-944-432-103   | Sequence 103, Appl |
| 49  | 27  | 1.4  | 27  | 10 | US-09-943-762-103   | Sequence 103, Appl |
| 50  | 27  | 1.4  | 27  | 10 | US-09-944-654-103   | Sequence 103, Appl |
| 51  | 27  | 1.4  | 27  | 10 | US-09-943-851A-103  | Sequence 103, Appl |
| 52  | 24  | 1.3  | 24  | 9  | US-09-944-413-51    | Sequence 51, Appl  |
| 53  | 24  | 1.3  | 24  | 9  | US-09-944-403-51    | Sequence 51, Appl  |
| 54  | 24  | 1.3  | 24  | 9  | US-09-944-896-51    | Sequence 51, Appl  |
| 55  | 24  | 1.3  | 24  | 9  | US-09-944-944-51    | Sequence 51, Appl  |
| 56  | 24  | 1.3  | 24  | 9  | US-09-866-028-51    | Sequence 51, Appl  |
| 57  | 24  | 1.3  | 24  | 9  | US-09-944-449-51    | Sequence 51, Appl  |
| 58  | 24  | 1.3  | 24  | 9  | US-09-944-457-51    | Sequence 51, Appl  |
| 59  | 24  | 1.3  | 24  | 10 | US-09-945-587-51    | Sequence 51, Appl  |
| 60  | 24  | 1.3  | 24  | 10 | US-09-945-015-51    | Sequence 51, Appl  |
| 61  | 24  | 1.3  | 24  | 10 | US-09-944-396-51    | Sequence 51, Appl  |
| 62  | 24  | 1.3  | 24  | 10 | US-09-944-097-51    | Sequence 51, Appl  |
| 63  | 24  | 1.3  | 24  | 10 | US-09-944-432-51    | Sequence 51, Appl  |
| 64  | 24  | 1.3  | 24  | 10 | US-09-943-762-51    | Sequence 51, Appl  |
| 65  | 24  | 1.3  | 24  | 10 | US-09-943-762-52    | Sequence 51, Appl  |
| 66  | 24  | 1.3  | 24  | 10 | US-09-944-654-51    | Sequence 51, Appl  |
| 67  | 24  | 1.3  | 24  | 10 | US-09-944-654-52    | Sequence 51, Appl  |
| 68  | 24  | 1.3  | 24  | 10 | US-09-944-654-51    | Sequence 51, Appl  |
| 69  | 24  | 1.3  | 24  | 10 | US-09-944-654-52    | Sequence 51, Appl  |
| 70  | 24  | 1.3  | 24  | 10 | US-09-944-654-51    | Sequence 51, Appl  |
| 71  | 24  | 1.3  | 24  | 10 | US-09-944-654-52    | Sequence 51, Appl  |
| 72  | 24  | 1.3  | 24  | 10 | US-09-944-654-51    | Sequence 51, Appl  |
| 73  | 24  | 1.3  | 24  | 10 | US-09-944-654-52    | Sequence 51, Appl  |
| 74  | 24  | 1.3  | 24  | 10 | US-09-944-654-51    | Sequence 51, Appl  |
| 75  | 24  | 1.3  | 24  | 10 | US-09-944-654-52    | Sequence 51, Appl  |
| 76  | 24  | 1.3  | 24  | 10 | US-09-944-654-51    | Sequence 51, Appl  |
| 77  | 24  | 1.3  | 24  | 10 | US-09-944-654-52    | Sequence 51, Appl  |
| 78  | 24  | 1.3  | 24  | 10 | US-09-944-654-51    | Sequence 51, Appl  |
| 79  | 24  | 1.3  | 24  | 10 | US-09-944-654-52    | Sequence 51, Appl  |
| 80  | 24  | 1.3  | 24  | 10 | US-09-944-654-51    | Sequence 51, Appl  |
| 81  | 24  | 1.3  | 24  | 10 | US-09-944-654-52    | Sequence 51, Appl  |
| 82  | 20  | 1.1  | 20  | 10 | US-09-943-851A-52   | Sequence 52, Appl  |
| 83  | 20  | 1.1  | 20  | 10 | US-09-790-264-6     | Sequence 6, Appl1  |
| 84  | 20  | 1.1  | 20  | 10 | US-09-790-264-8     | Sequence 8, Appl1  |
| 85  | 19  | 1.0  | 19  | 9  | US-09-938-842A-5183 | Sequence 5183, Ap  |
| 86  | 19  | 1.0  | 19  | 9  | US-09-944-413-104   | Sequence 104, Appl |
| 87  | 19  | 1.0  | 19  | 9  | US-09-944-403-104   | Sequence 104, Appl |
| 88  | 19  | 1.0  | 19  | 9  | US-09-944-896-104   | Sequence 104, Appl |
| 89  | 19  | 1.0  | 19  | 9  | US-09-944-944-104   | Sequence 104, Appl |
| 90  | 19  | 1.0  | 19  | 10 | US-09-866-028-104   | Sequence 104, Appl |
| 91  | 19  | 1.0  | 19  | 10 | US-09-944-449-104   | Sequence 104, Appl |
| 92  | 19  | 1.0  | 19  | 10 | US-09-944-457-104   | Sequence 104, Appl |
| 93  | 19  | 1.0  | 19  | 10 | US-09-944-457-104   | Sequence 104, Appl |
| 94  | 19  | 1.0  | 19  | 10 | US-09-944-457-104   | Sequence 104, Appl |
| 95  | 19  | 1.0  | 19  | 10 | US-09-944-457-104   | Sequence 104, Appl |
| 96  | 19  | 1.0  | 19  | 10 | US-09-944-457-104   | Sequence 104, Appl |
| 97  | 19  | 1.0  | 19  | 10 | US-09-944-457-104   | Sequence 104, Appl |
| 98  | 19  | 1.0  | 19  | 10 | US-09-944-457-104   | Sequence 104, Appl |
| 99  | 19  | 1.0  | 19  | 10 | US-09-944-457-104   | Sequence 104, Appl |
| 100 | 19  | 1.0  | 19  | 10 | US-09-944-457-104   | Sequence 104, Appl |

|       |    |     |        |                     |                    |     |    |     |        |    |                    |                    |
|-------|----|-----|--------|---------------------|--------------------|-----|----|-----|--------|----|--------------------|--------------------|
| c 93  | 19 | 1.0 | 10     | US-09-945-015-104   | Sequence 104, App  | 166 | 18 | 1.0 | 1332   | 9  | US-09-992-598-269  | Sequence 269, App  |
| c 94  | 19 | 1.0 | 10     | US-09-944-396-104   | Sequence 104, App  | 167 | 18 | 1.0 | 1332   | 9  | US-09-989-293A-269 | Sequence 269, App  |
| c 95  | 19 | 1.0 | 10     | US-09-944-097-104   | Sequence 104, App  | 168 | 18 | 1.0 | 1332   | 9  | US-09-989-735-269  | Sequence 269, App  |
| c 96  | 19 | 1.0 | 10     | US-09-944-432-104   | Sequence 104, App  | 169 | 18 | 1.0 | 1332   | 9  | US-09-990-444-269  | Sequence 269, App  |
| c 97  | 19 | 1.0 | 10     | US-09-943-762-104   | Sequence 104, App  | 170 | 18 | 1.0 | 1332   | 10 | US-09-989-722-269  | Sequence 269, App  |
| c 98  | 19 | 1.0 | 10     | US-09-944-654-104   | Sequence 104, App  | 171 | 18 | 1.0 | 1332   | 10 | US-09-989-723-269  | Sequence 269, App  |
| c 99  | 19 | 1.0 | 10     | US-09-943-851A-104  | Sequence 104, App  | 172 | 18 | 1.0 | 1332   | 10 | US-09-989-729-269  | Sequence 269, App  |
| c 100 | 19 | 1.0 | 647    | US-09-764-898-84    | Sequence 84, Appl  | 173 | 18 | 1.0 | 1332   | 10 | US-09-989-727-269  | Sequence 269, App  |
| c 101 | 19 | 1.0 | 1060   | US-09-925-301-116   | Sequence 116, App  | 174 | 18 | 1.0 | 1332   | 10 | US-09-989-731-269  | Sequence 269, App  |
| c 102 | 19 | 1.0 | 1329   | US-09-852-797-25    | Sequence 25, Appl  | 175 | 18 | 1.0 | 1332   | 10 | US-09-989-732-269  | Sequence 269, App  |
| c 103 | 19 | 1.0 | 1329   | US-09-853-161-25    | Sequence 25, Appl  | 176 | 18 | 1.0 | 1332   | 10 | US-09-989-732-269  | Sequence 269, App  |
| c 104 | 19 | 1.0 | 1329   | US-09-852-659A-25   | Sequence 25, Appl  | 177 | 18 | 1.0 | 1332   | 10 | US-09-991-073-269  | Sequence 269, App  |
| c 105 | 19 | 1.0 | 1356   | US-09-808-602-20    | Sequence 20, Appl  | 178 | 18 | 1.0 | 1332   | 10 | US-09-990-442-269  | Sequence 269, App  |
| c 106 | 19 | 1.0 | 1667   | US-09-808-602-16    | Sequence 16, Appl  | 179 | 18 | 1.0 | 1332   | 10 | US-09-991-163-269  | Sequence 269, App  |
| c 107 | 19 | 1.0 | 1691   | US-09-808-602-18    | Sequence 18, Appl  | 180 | 18 | 1.0 | 1332   | 10 | US-09-993-604-269  | Sequence 269, App  |
| c 108 | 19 | 1.0 | 1835   | US-09-925-302-32    | Sequence 32, Appl  | 181 | 18 | 1.0 | 1332   | 10 | US-09-990-456-269  | Sequence 269, App  |
| c 109 | 19 | 1.0 | 3230   | US-09-764-878-358   | Sequence 358, App  | 182 | 18 | 1.0 | 1332   | 10 | US-09-989-721-269  | Sequence 269, App  |
| c 110 | 19 | 1.0 | 3318   | US-09-808-602-91    | Sequence 91, Appl  | 183 | 18 | 1.0 | 1400   | 10 | US-09-796-858-29   | Sequence 29, Appl  |
| c 111 | 19 | 1.0 | 3439   | US-10-044-090-546   | Sequence 546, App  | 184 | 18 | 1.0 | 1678   | 10 | US-09-731-872-182  | Sequence 182, App  |
| c 112 | 19 | 1.0 | 155074 | US-10-026-188-6     | Sequence 6, Appl   | 185 | 18 | 1.0 | 1724   | 10 | US-09-832-616-1    | Sequence 1, Appl   |
| c 113 | 19 | 1.0 | 155074 | US-10-026-188-6     | Sequence 6, Appl   | 186 | 18 | 1.0 | 1815   | 10 | US-09-832-496-1    | Sequence 1, Appl   |
| c 114 | 18 | 1.0 | 18     | US-09-944-413-102   | Sequence 102, App  | 187 | 18 | 1.0 | 1844   | 10 | US-09-735-705-88   | Sequence 88, Appl  |
| c 115 | 18 | 1.0 | 18     | US-09-944-403-102   | Sequence 102, App  | 188 | 18 | 1.0 | 1844   | 10 | US-09-850-716A-88  | Sequence 88, Appl  |
| c 116 | 18 | 1.0 | 18     | US-09-944-896-102   | Sequence 102, App  | 189 | 18 | 1.0 | 1844   | 10 | US-09-897-778-88   | Sequence 88, Appl  |
| c 117 | 18 | 1.0 | 18     | US-09-944-944-102   | Sequence 102, App  | 190 | 18 | 1.0 | 1859   | 10 | US-09-764-864-740  | Sequence 740, App  |
| c 118 | 18 | 1.0 | 18     | US-09-866-028-102   | Sequence 102, App  | 191 | 18 | 1.0 | 1893   | 9  | US-10-063-547-149  | Sequence 149, App  |
| c 119 | 18 | 1.0 | 18     | US-09-944-449-102   | Sequence 102, App  | 192 | 18 | 1.0 | 1893   | 12 | US-10-036-041-66   | Sequence 66, Appl  |
| c 120 | 18 | 1.0 | 18     | US-09-944-457-102   | Sequence 102, App  | 193 | 18 | 1.0 | 1893   | 12 | US-10-006-867-149  | Sequence 149, App  |
| c 121 | 18 | 1.0 | 18     | US-09-945-587-102   | Sequence 102, App  | 194 | 18 | 1.0 | 1947   | 10 | US-09-864-761-4439 | Sequence 4439, App |
| c 122 | 18 | 1.0 | 18     | US-09-945-015-102   | Sequence 102, App  | 195 | 18 | 1.0 | 1985   | 10 | US-09-817-913-4    | Sequence 4, Appl   |
| c 123 | 18 | 1.0 | 18     | US-09-944-396-102   | Sequence 102, App  | 196 | 18 | 1.0 | 1985   | 10 | US-09-817-538-4    | Sequence 4, Appl   |
| c 124 | 18 | 1.0 | 18     | US-09-944-097-102   | Sequence 102, App  | 197 | 18 | 1.0 | 2397   | 9  | US-09-905-291A-324 | Sequence 324, App  |
| c 125 | 18 | 1.0 | 18     | US-09-944-432-102   | Sequence 102, App  | 198 | 18 | 1.0 | 2397   | 9  | US-09-902-853-324  | Sequence 324, App  |
| c 126 | 18 | 1.0 | 18     | US-09-943-762-102   | Sequence 102, App  | 199 | 18 | 1.0 | 2397   | 10 | US-09-909-320-324  | Sequence 324, App  |
| c 127 | 18 | 1.0 | 18     | US-09-944-654-102   | Sequence 102, App  | 200 | 18 | 1.0 | 2397   | 12 | US-10-052-586-29   | Sequence 29, Appl  |
| c 128 | 18 | 1.0 | 18     | US-09-943-851A-102  | Sequence 102, App  | 201 | 18 | 1.0 | 2732   | 9  | US-09-759-056-1    | Sequence 1, Appl   |
| c 129 | 18 | 1.0 | 77     | US-09-933-797-765   | Sequence 765, App  | 202 | 18 | 1.0 | 2732   | 9  | US-09-901-812-1    | Sequence 1, Appl   |
| c 130 | 18 | 1.0 | 229    | US-09-864-761-25928 | Sequence 25928, A  | 203 | 18 | 1.0 | 2777   | 9  | US-09-901-812-1    | Sequence 1, Appl   |
| c 131 | 18 | 1.0 | 229    | US-09-864-761-26170 | Sequence 26170, A  | 204 | 18 | 1.0 | 2777   | 9  | US-09-759-056-4    | Sequence 4, Appl   |
| c 132 | 18 | 1.0 | 291    | US-09-923-876-3910  | Sequence 3910, App | 205 | 18 | 1.0 | 2777   | 9  | US-09-901-812-4    | Sequence 4, Appl   |
| c 133 | 18 | 1.0 | 431    | US-09-864-761-9434  | Sequence 9434, App | 206 | 18 | 1.0 | 2777   | 9  | US-09-992-598-288  | Sequence 288, App  |
| c 134 | 18 | 1.0 | 474    | US-09-864-761-9804  | Sequence 9804, App | 207 | 18 | 1.0 | 3334   | 9  | US-09-992-598-288  | Sequence 288, App  |
| c 135 | 18 | 1.0 | 494    | US-09-867-701-9902  | Sequence 9902, App | 208 | 18 | 1.0 | 3334   | 9  | US-10-063-547-57   | Sequence 57, Appl  |
| c 136 | 18 | 1.0 | 494    | US-10-063-547-29    | Sequence 29, Appl  | 209 | 18 | 1.0 | 3334   | 9  | US-09-989-735-288  | Sequence 288, App  |
| c 137 | 18 | 1.0 | 494    | US-10-006-867-29    | Sequence 29, Appl  | 210 | 18 | 1.0 | 3334   | 9  | US-09-989-732-288  | Sequence 288, App  |
| c 138 | 18 | 1.0 | 496    | US-09-783-590-3813  | Sequence 3813, App | 211 | 18 | 1.0 | 3334   | 10 | US-09-990-442-288  | Sequence 288, App  |
| c 139 | 18 | 1.0 | 540    | US-09-864-761-9434  | Sequence 9434, App | 212 | 18 | 1.0 | 3334   | 10 | US-09-989-723-288  | Sequence 288, App  |
| c 140 | 18 | 1.0 | 559    | US-09-864-761-9804  | Sequence 9804, App | 213 | 18 | 1.0 | 3334   | 10 | US-09-989-727-288  | Sequence 288, App  |
| c 141 | 18 | 1.0 | 593    | US-09-764-868-192   | Sequence 192, App  | 214 | 18 | 1.0 | 3334   | 10 | US-09-989-727-288  | Sequence 288, App  |
| c 142 | 18 | 1.0 | 635    | US-09-983-965-563   | Sequence 563, App  | 215 | 18 | 1.0 | 3334   | 10 | US-09-989-731-288  | Sequence 288, App  |
| c 143 | 18 | 1.0 | 654    | US-09-814-122-31    | Sequence 31, Appl  | 216 | 18 | 1.0 | 3334   | 10 | US-09-989-732-288  | Sequence 288, App  |
| c 144 | 18 | 1.0 | 669    | US-09-879-536-342   | Sequence 342, App  | 217 | 18 | 1.0 | 3334   | 10 | US-09-991-073-288  | Sequence 288, App  |
| c 145 | 18 | 1.0 | 730    | US-09-950-933A-1    | Sequence 1, Appl   | 218 | 18 | 1.0 | 3334   | 10 | US-09-990-442-288  | Sequence 288, App  |
| c 146 | 18 | 1.0 | 929    | US-09-814-122-16    | Sequence 16, Appl  | 219 | 18 | 1.0 | 3334   | 10 | US-09-990-442-288  | Sequence 288, App  |
| c 147 | 18 | 1.0 | 936    | US-09-925-301-83    | Sequence 83, Appl  | 220 | 18 | 1.0 | 3334   | 10 | US-09-989-723-288  | Sequence 288, App  |
| c 148 | 18 | 1.0 | 963    | US-09-925-598-423   | Sequence 423, App  | 221 | 18 | 1.0 | 3334   | 10 | US-09-989-279-288  | Sequence 288, App  |
| c 149 | 18 | 1.0 | 963    | US-09-989-293A-423  | Sequence 423, App  | 222 | 18 | 1.0 | 3334   | 10 | US-09-989-727-288  | Sequence 288, App  |
| c 150 | 18 | 1.0 | 963    | US-09-989-735-423   | Sequence 423, App  | 223 | 18 | 1.0 | 3334   | 10 | US-09-989-731-288  | Sequence 288, App  |
| c 151 | 18 | 1.0 | 963    | US-09-990-444-423   | Sequence 423, App  | 224 | 18 | 1.0 | 3334   | 10 | US-09-989-732-288  | Sequence 288, App  |
| c 152 | 18 | 1.0 | 963    | US-09-989-722-423   | Sequence 423, App  | 225 | 18 | 1.0 | 3334   | 10 | US-09-991-073-288  | Sequence 288, App  |
| c 153 | 18 | 1.0 | 963    | US-09-989-723-423   | Sequence 423, App  | 226 | 18 | 1.0 | 3334   | 10 | US-09-990-442-288  | Sequence 288, App  |
| c 154 | 18 | 1.0 | 963    | US-09-989-727-423   | Sequence 423, App  | 227 | 18 | 1.0 | 3334   | 10 | US-09-990-442-288  | Sequence 288, App  |
| c 155 | 18 | 1.0 | 963    | US-09-989-779-423   | Sequence 423, App  | 228 | 18 | 1.0 | 3334   | 10 | US-09-990-442-288  | Sequence 288, App  |
| c 156 | 18 | 1.0 | 963    | US-09-989-731-423   | Sequence 423, App  | 229 | 18 | 1.0 | 3334   | 10 | US-09-990-442-288  | Sequence 288, App  |
| c 157 | 18 | 1.0 | 963    | US-09-989-732-423   | Sequence 423, App  | 230 | 18 | 1.0 | 3334   | 10 | US-09-990-442-288  | Sequence 288, App  |
| c 158 | 18 | 1.0 | 963    | US-09-991-073-423   | Sequence 423, App  | 231 | 18 | 1.0 | 3334   | 10 | US-09-990-442-288  | Sequence 288, App  |
| c 159 | 18 | 1.0 | 963    | US-09-990-442-423   | Sequence 423, App  | 232 | 18 | 1.0 | 3334   | 10 | US-09-990-442-288  | Sequence 288, App  |
| c 160 | 18 | 1.0 | 963    | US-09-991-163-423   | Sequence 423, App  | 233 | 18 | 1.0 | 3334   | 10 | US-09-990-442-288  | Sequence 288, App  |
| c 161 | 18 | 1.0 | 963    | US-09-993-604-423   | Sequence 423, App  | 234 | 18 | 1.0 | 3334   | 10 | US-09-990-442-288  | Sequence 288, App  |
| c 162 | 18 | 1.0 | 963    | US-09-990-456-423   | Sequence 423, App  | 235 | 18 | 1.0 | 3334   | 10 | US-09-990-442-288  | Sequence 288, App  |
| c 163 | 18 | 1.0 | 1030   | US-09-989-721-423   | Sequence 423, App  | 236 | 17 | 0.9 | 110096 | 10 | US-09-880-107-3428 | Sequence 3428, App |
| c 164 | 18 | 1.0 | 1040   | US-09-764-864-739   | Sequence 739, App  | 237 | 17 | 0.9 | 110096 | 10 | US-09-880-107-1542 | Sequence 1542, App |
| c 165 | 18 | 1.0 | 1251   | US-09-764-864-319   | Sequence 319, App  | 238 | 17 | 0.9 | 110096 | 10 | US-09-790-264-7    | Sequence 7, Appl   |
|       |    |     |        | Sequence 7, Appl    | Sequence 7, Appl   | 239 | 17 | 0.9 | 110096 | 10 | US-09-867-701-8701 | Sequence 8701, App |
|       |    |     |        |                     |                    | 240 | 17 | 0.9 | 110096 | 10 | US-09-867-701-6283 | Sequence 6283, App |

|       |    |     |      |    |                     |                    |       |    |     |        |    |                    |                   |
|-------|----|-----|------|----|---------------------|--------------------|-------|----|-----|--------|----|--------------------|-------------------|
| c 239 | 17 | 0.9 | 162  | 10 | US-09-867-701-6284  | Sequence 6284, Ap  | 312   | 17 | 0.9 | 1989   | 10 | US-09-924-358-12   | Sequence 12, Appl |
| c 240 | 17 | 0.9 | 181  | 10 | US-09-864-761-24124 | Sequence 24124, A  | 313   | 17 | 0.9 | 2004   | 9  | US-09-966-614-1    | Sequence 10, Appl |
| c 241 | 17 | 0.9 | 204  | 10 | US-09-924-035A-511  | Sequence 511, App  | 314   | 17 | 0.9 | 2172   | 10 | US-09-924-358-10   | Sequence 51, Appl |
| c 242 | 17 | 0.9 | 210  | 10 | US-09-867-701-9070  | Sequence 9070, Ap  | c 315 | 17 | 0.9 | 2181   | 9  | US-09-978-295A-51  | Sequence 51, Appl |
| c 243 | 17 | 0.9 | 222  | 10 | US-09-783-590-6306  | Sequence 6306, App | c 316 | 17 | 0.9 | 2181   | 9  | US-09-978-697-51   | Sequence 51, Appl |
| c 244 | 17 | 0.9 | 253  | 10 | US-09-923-876-2007  | Sequence 2007, Ap  | c 317 | 17 | 0.9 | 2181   | 9  | US-09-978-192A-51  | Sequence 7, Appl  |
| c 245 | 17 | 0.9 | 257  | 10 | US-09-964-824A-41   | Sequence 41, Appl  | c 318 | 17 | 0.9 | 2181   | 9  | US-09-953-499-7    | Sequence 11, Appl |
| c 246 | 17 | 0.9 | 257  | 10 | US-09-964-824A-448  | Sequence 448, App  | c 319 | 17 | 0.9 | 2181   | 9  | US-09-953-499-11   | Sequence 51, Appl |
| c 247 | 17 | 0.9 | 257  | 10 | US-09-880-107-965   | Sequence 965, App  | c 320 | 17 | 0.9 | 2181   | 9  | US-09-999-832A-51  | Sequence 49, Appl |
| c 248 | 17 | 0.9 | 257  | 10 | US-09-967-768A-78   | Sequence 76, Appl  | c 321 | 17 | 0.9 | 2193   | 10 | US-09-822-849A-49  | Sequence 7, Appl  |
| c 249 | 17 | 0.9 | 265  | 10 | US-09-764-846-24    | Sequence 24, Appl  | c 322 | 17 | 0.9 | 2261   | 10 | US-09-891-216-7    | Sequence 136, App |
| c 250 | 17 | 0.9 | 284  | 10 | US-09-250-883-13    | Sequence 13, Appl  | c 323 | 17 | 0.9 | 2332   | 9  | US-09-764-904-136  | Sequence 1197, Ap |
| c 251 | 17 | 0.9 | 301  | 10 | US-09-960-352-4747  | Sequence 4747, Ap  | c 324 | 17 | 0.9 | 2332   | 10 | US-09-764-860-1197 | Sequence 32, Appl |
| c 252 | 17 | 0.9 | 309  | 10 | US-09-925-302-387   | Sequence 387, App  | c 325 | 17 | 0.9 | 2346   | 10 | US-09-925-297-32   | Sequence 7, Appl  |
| c 253 | 17 | 0.9 | 330  | 10 | US-09-917-800A-671  | Sequence 671, App  | c 326 | 17 | 0.9 | 2362   | 10 | US-09-866-582-7    | Sequence 8, Appl  |
| c 254 | 17 | 0.9 | 347  | 10 | US-09-880-107-364   | Sequence 364, App  | c 327 | 17 | 0.9 | 2502   | 10 | US-09-891-216-8    | Sequence 7, Appl  |
| c 255 | 17 | 0.9 | 349  | 10 | US-09-983-965-2319  | Sequence 2319, Ap  | c 328 | 17 | 0.9 | 2663   | 10 | US-09-995-593A-8   | Sequence 20, Appl |
| c 256 | 17 | 0.9 | 356  | 10 | US-09-960-352-125   | Sequence 125, App  | c 329 | 17 | 0.9 | 2935   | 9  | US-09-828-366-20   | Sequence 242, App |
| c 257 | 17 | 0.9 | 380  | 9  | US-09-954-531-621   | Sequence 621, App  | c 330 | 17 | 0.9 | 2935   | 9  | US-09-764-868-242  | Sequence 313, App |
| c 258 | 17 | 0.9 | 380  | 10 | US-09-969-708-585   | Sequence 585, App  | c 331 | 17 | 0.9 | 3010   | 9  | US-09-989-293A-313 | Sequence 313, App |
| c 259 | 17 | 0.9 | 380  | 10 | US-09-917-800A-179  | Sequence 179, App  | c 332 | 17 | 0.9 | 3010   | 9  | US-09-989-735-313  | Sequence 313, App |
| c 260 | 17 | 0.9 | 381  | 10 | US-09-878-574-1427  | Sequence 1427, Ap  | c 333 | 17 | 0.9 | 3010   | 9  | US-09-989-735-313  | Sequence 313, App |
| c 261 | 17 | 0.9 | 404  | 9  | US-09-946-807-1469  | Sequence 1469, Ap  | c 334 | 17 | 0.9 | 3010   | 9  | US-09-900-444-313  | Sequence 313, App |
| c 262 | 17 | 0.9 | 404  | 10 | US-09-795-668-1469  | Sequence 1469, Ap  | c 335 | 17 | 0.9 | 3010   | 10 | US-09-989-722-313  | Sequence 313, App |
| c 263 | 17 | 0.9 | 404  | 10 | US-09-795-686-1469  | Sequence 1469, Ap  | c 336 | 17 | 0.9 | 3010   | 10 | US-09-989-723-313  | Sequence 313, App |
| c 264 | 17 | 0.9 | 411  | 10 | US-09-969-708-125   | Sequence 125, App  | c 337 | 17 | 0.9 | 3010   | 10 | US-09-989-279-313  | Sequence 313, App |
| c 265 | 17 | 0.9 | 449  | 10 | US-09-924-035A-239  | Sequence 239, App  | c 338 | 17 | 0.9 | 3010   | 10 | US-09-989-727-313  | Sequence 313, App |
| c 266 | 17 | 0.9 | 473  | 10 | US-09-864-761-10846 | Sequence 10846, A  | c 339 | 17 | 0.9 | 3010   | 10 | US-09-989-731-313  | Sequence 313, App |
| c 267 | 17 | 0.9 | 478  | 10 | US-09-864-761-568   | Sequence 568, App  | c 340 | 17 | 0.9 | 3010   | 10 | US-09-989-732-313  | Sequence 313, App |
| c 268 | 17 | 0.9 | 494  | 9  | US-09-954-531-675   | Sequence 675, App  | c 341 | 17 | 0.9 | 3010   | 10 | US-09-991-073-313  | Sequence 313, App |
| c 269 | 17 | 0.9 | 516  | 9  | US-09-954-531-633   | Sequence 633, App  | c 342 | 17 | 0.9 | 3010   | 10 | US-09-990-442-313  | Sequence 313, App |
| c 270 | 17 | 0.9 | 516  | 9  | US-09-954-531-1042  | Sequence 1042, Ap  | c 343 | 17 | 0.9 | 3010   | 10 | US-09-991-163-313  | Sequence 313, App |
| c 271 | 17 | 0.9 | 516  | 10 | US-09-962-436-348   | Sequence 348, App  | c 344 | 17 | 0.9 | 3010   | 10 | US-09-993-604-313  | Sequence 313, App |
| c 272 | 17 | 0.9 | 516  | 10 | US-09-954-456-834   | Sequence 834, App  | c 345 | 17 | 0.9 | 3010   | 10 | US-09-990-456-313  | Sequence 313, App |
| c 273 | 17 | 0.9 | 516  | 10 | US-09-954-456-1259  | Sequence 1259, Ap  | c 346 | 17 | 0.9 | 3010   | 10 | US-09-989-721-313  | Sequence 313, App |
| c 274 | 17 | 0.9 | 516  | 10 | US-09-880-107-114   | Sequence 114, App  | c 347 | 17 | 0.9 | 3359   | 10 | US-09-887-576-459  | Sequence 459, App |
| c 275 | 17 | 0.9 | 564  | 9  | US-09-894-844-124   | Sequence 124, App  | c 348 | 17 | 0.9 | 3770   | 9  | US-09-924-396B-19  | Sequence 19, Appl |
| c 276 | 17 | 0.9 | 583  | 10 | US-09-864-761-7403  | Sequence 7403, Ap  | c 349 | 17 | 0.9 | 3923   | 10 | US-09-910-087-20   | Sequence 20, Appl |
| c 277 | 17 | 0.9 | 598  | 10 | US-09-864-761-13298 | Sequence 13298, A  | c 350 | 17 | 0.9 | 3923   | 10 | US-09-880-107-3935 | Sequence 3935, Ap |
| c 278 | 17 | 0.9 | 645  | 10 | US-09-770-149-582   | Sequence 582, App  | c 351 | 17 | 0.9 | 3923   | 10 | US-09-967-768A-222 | Sequence 222, App |
| c 279 | 17 | 0.9 | 730  | 10 | US-09-867-580-677   | Sequence 677, App  | c 352 | 17 | 0.9 | 4101   | 9  | US-09-981-353-28   | Sequence 28, Appl |
| c 280 | 17 | 0.9 | 903  | 10 | US-09-974-300-4731  | Sequence 4731, Ap  | c 353 | 17 | 0.9 | 4629   | 10 | US-09-150-811-7    | GENERAL INFORMA   |
| c 281 | 17 | 0.9 | 978  | 10 | US-09-886-055-234   | Sequence 234, App  | c 354 | 17 | 0.9 | 4839   | 10 | US-09-764-867-476  | Sequence 476, App |
| c 282 | 17 | 0.9 | 997  | 10 | US-09-800-729-14    | Sequence 14, Appl  | c 355 | 17 | 0.9 | 5640   | 10 | US-09-774-434-3    | Sequence 3, Appl  |
| c 283 | 17 | 0.9 | 1017 | 10 | US-09-800-528-7     | Sequence 7, Appl   | c 356 | 17 | 0.9 | 9009   | 9  | US-09-957-641-1    | Sequence 1, Appl  |
| c 284 | 17 | 0.9 | 1021 | 10 | US-09-789-561-61    | Sequence 61, Appl  | c 357 | 17 | 0.9 | 11617  | 9  | US-09-860-670-265  | Sequence 265, App |
| c 285 | 17 | 0.9 | 1050 | 10 | US-09-800-729-46    | Sequence 46, Appl  | c 358 | 17 | 0.9 | 17764  | 10 | US-09-070-927A-301 | Sequence 301, App |
| c 286 | 17 | 0.9 | 1071 | 10 | US-09-800-729-45    | Sequence 45, App   | c 359 | 17 | 0.9 | 32132  | 10 | US-09-764-877-2308 | Sequence 2308, Ap |
| c 287 | 17 | 0.9 | 1086 | 10 | US-09-789-561-82    | Sequence 82, Appl  | c 360 | 17 | 0.9 | 45845  | 10 | US-09-927-091-6    | Sequence 6, Appl  |
| c 288 | 17 | 0.9 | 1086 | 10 | US-09-800-729-48    | Sequence 48, Appl  | c 361 | 17 | 0.9 | 180216 | 10 | US-09-835-232-6    | Sequence 6, Appl  |
| c 289 | 17 | 0.9 | 1092 | 10 | US-09-867-550-1055  | Sequence 1055, Ap  | c 362 | 17 | 0.9 | 465237 | 10 | US-09-933-267A-1   | Sequence 1, Appl  |
| c 290 | 17 | 0.9 | 1125 | 9  | US-09-938-842A-5081 | Sequence 5081, Ap  | c 363 | 17 | 0.9 | 659158 | 9  | US-09-771-208-20   | Sequence 20, Appl |
| c 291 | 17 | 0.9 | 1138 | 10 | US-09-800-729-44    | Sequence 44, Appl  | c 364 | 16 | 0.9 | 24     | 10 | US-09-216-393-356  | Sequence 356, App |
| c 292 | 17 | 0.9 | 1149 | 10 | US-09-800-729-47    | Sequence 47, Appl  | c 365 | 16 | 0.9 | 77     | 10 | US-09-919-580-319  | Sequence 319, App |
| c 293 | 17 | 0.9 | 1189 | 10 | US-09-770-445-49    | Sequence 49, Appl  | c 366 | 16 | 0.9 | 101    | 10 | US-09-834-975-712  | Sequence 712, App |
| c 294 | 17 | 0.9 | 1297 | 10 | US-09-770-445-17    | Sequence 17, Appl  | c 367 | 16 | 0.9 | 112    | 10 | US-09-925-300-880  | Sequence 880, App |
| c 295 | 17 | 0.9 | 1332 | 10 | US-09-250-883-14    | Sequence 14, Appl  | c 368 | 16 | 0.9 | 118    | 10 | US-09-974-300-7727 | Sequence 7727, Ap |
| c 296 | 17 | 0.9 | 1350 | 9  | US-09-984-245-115   | Sequence 115, App  | c 369 | 16 | 0.9 | 133    | 10 | US-09-925-299-701  | Sequence 701, App |
| c 297 | 17 | 0.9 | 1351 | 9  | US-09-984-245-85    | Sequence 85, Appl  | c 370 | 16 | 0.9 | 135    | 10 | US-09-895-828-108  | Sequence 108, App |
| c 298 | 17 | 0.9 | 1400 | 10 | US-09-774-490-5     | Sequence 5, Appl   | c 371 | 16 | 0.9 | 140    | 10 | US-09-867-701-3127 | Sequence 3127, Ap |
| c 299 | 17 | 0.9 | 1465 | 10 | US-09-864-761-13828 | Sequence 13828, A  | c 372 | 16 | 0.9 | 142    | 9  | US-09-954-531-608  | Sequence 608, App |
| c 300 | 17 | 0.9 | 1501 | 10 | US-09-925-302-41    | Sequence 41, Appl  | c 373 | 16 | 0.9 | 142    | 10 | US-09-954-456-22   | Sequence 22, Appl |
| c 301 | 17 | 0.9 | 1521 | 10 | US-09-864-761-30395 | Sequence 30395, A  | c 374 | 16 | 0.9 | 142    | 10 | US-09-954-456-549  | Sequence 549, App |
| c 302 | 17 | 0.9 | 1572 | 12 | US-10-063-254-267   | Sequence 267, App  | c 375 | 16 | 0.9 | 142    | 10 | US-09-954-456-1614 | Sequence 1614, Ap |
| c 303 | 17 | 0.9 | 1641 | 10 | US-09-731-816-3     | Sequence 3, Appl   | c 376 | 16 | 0.9 | 147    | 10 | US-09-924-035A-247 | Sequence 247, App |
| c 304 | 17 | 0.9 | 1660 | 9  | US-09-764-868-244   | Sequence 244, App  | c 377 | 16 | 0.9 | 148    | 10 | US-09-880-107-386  | Sequence 386, App |
| c 305 | 17 | 0.9 | 1737 | 10 | US-09-925-301-186   | Sequence 186, App  | c 378 | 16 | 0.9 | 152    | 9  | US-09-736-457-436  | Sequence 436, App |
| c 306 | 17 | 0.9 | 1758 | 10 | US-09-815-242-7035  | Sequence 7035, Ap  | c 379 | 16 | 0.9 | 152    | 9  | US-09-736-457-924  | Sequence 924, App |
| c 307 | 17 | 0.9 | 1793 | 10 | US-09-925-301-343   | Sequence 343, App  | c 380 | 16 | 0.9 | 152    | 9  | US-09-902-941-436  | Sequence 924, App |
| c 308 | 17 | 0.9 | 1860 | 10 | US-09-880-107-1618  | Sequence 1618, Ap  | c 381 | 16 | 0.9 | 152    | 9  | US-09-902-941-924  | Sequence 924, App |
| c 309 | 17 | 0.9 | 1892 | 12 | US-10-078-929-105   | Sequence 105, App  | c 382 | 16 | 0.9 | 161    | 10 | US-09-867-701-9144 | Sequence 9144, Ap |
| c 310 | 17 | 0.9 | 1925 | 10 | US-09-938-842A-4067 | Sequence 4067, Ap  | c 383 | 16 | 0.9 | 164    | 10 | US-09-728-445-550  | Sequence 550, App |
| c 311 | 17 | 0.9 | 1981 | 10 | US-09-908-322-26    | Sequence 267, Appl | c 384 | 16 | 0.9 | 164    | 10 | US-09-783-590-5195 | Sequence 5195, Ap |

c 385 16 0.9 165 10 US-09-983-965-5149 Sequence 5149, Ap 458 16  
c 386 16 0.9 175 10 US-09-770-696-319 Sequence 319, App 459 16  
c 387 16 0.9 181 10 US-09-764-877-20 Sequence 20, Appl 460 16  
c 388 16 0.9 188 10 US-09-917-800A-602 Sequence 602, App 461 16  
c 389 16 0.9 196 10 US-09-895-828-310 Sequence 310, App 462 16  
c 390 16 0.9 197 10 US-09-783-590-2899 Sequence 2899, Ap 463 16  
c 391 16 0.9 200 10 US-09-960-352-14582 Sequence 14582, A 464 16  
c 392 16 0.9 207 10 US-09-764-847-402 Sequence 402, App 465 16  
c 393 16 0.9 210 10 US-09-764-846-63 Sequence 63, Appl 466 16  
c 394 16 0.9 211 10 US-09-867-701-9752 Sequence 9752, Ap 467 16  
c 395 16 0.9 211 10 US-09-960-352-6836 Sequence 6836, Ap 468 16  
c 396 16 0.9 211 10 US-09-880-107-15916 Sequence 1515, Ap 469 16  
c 397 16 0.9 213 10 US-09-864-761-25096 Sequence 25096, A 470 16  
c 398 16 0.9 216 10 US-09-864-761-20049 Sequence 20049, A 471 16  
c 399 16 0.9 217 10 US-09-867-701-9498 Sequence 9498, Ap 472 16  
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c 402 16 0.9 225 10 US-09-867-701-7438 Sequence 7438, Ap 475 16  
c 403 16 0.9 234 10 US-09-867-701-9928 Sequence 9928, Ap 476 16  
c 404 16 0.9 235 10 US-09-998-598-2601 Sequence 2601, Ap 477 16  
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c 406 16 0.9 241 10 US-09-880-107-3113 Sequence 3113, Ap 479 16  
c 407 16 0.9 243 9 US-10-079-623-305 Sequence 305, App 480 16  
c 408 16 0.9 243 9 US-10-040-739-1020 Sequence 1020, Ap 481 16  
c 409 16 0.9 245 10 US-09-777-564-1543 Sequence 1543, Ap 482 16  
c 410 16 0.9 247 10 US-09-919-580-685 Sequence 685, App 483 16  
c 411 16 0.9 252 10 US-09-864-761-21981 Sequence 21981, A 484 16  
c 412 16 0.9 256 10 US-09-960-352-2480 Sequence 2480, Ap 485 16  
c 413 16 0.9 261 10 US-09-864-761-26238 Sequence 26238, A 486 16  
c 414 16 0.9 261 10 US-09-783-590-7039 Sequence 7039, Ap 487 16  
c 415 16 0.9 269 10 US-09-960-352-10807 Sequence 10807, A 488 16  
c 416 16 0.9 270 10 US-09-895-828-209 Sequence 209, App 489 16  
c 417 16 0.9 271 10 US-09-867-701-7636 Sequence 7636, Ap 490 16  
c 418 16 0.9 271 10 US-09-923-876-4367 Sequence 4367, Ap 491 16  
c 419 16 0.9 272 10 US-09-925-302-139 Sequence 139, App 492 16  
c 420 16 0.9 275 10 US-09-925-299-609 Sequence 609, App 493 16  
c 421 16 0.9 277 10 US-09-895-828-275 Sequence 275, App 494 16  
c 422 16 0.9 278 10 US-09-777-564-1623 Sequence 1623, Ap 495 16  
c 423 16 0.9 278 10 US-09-895-828-263 Sequence 43, App 496 16  
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c 432 16 0.9 285 10 US-09-895-828-359 Sequence 359, App 505 16  
c 433 16 0.9 285 10 US-09-867-701-9394 Sequence 9394, Ap 506 16  
c 434 16 0.9 287 9 US-09-933-797-348 Sequence 348, App 507 16  
c 435 16 0.9 287 10 US-09-783-590-11346 Sequence 11346, A 508 16  
c 436 16 0.9 290 9 US-09-728-444-1155 Sequence 1155, Ap 509 16  
c 437 16 0.9 299 10 US-09-919-580-544 Sequence 544, App 510 16  
c 438 16 0.9 300 9 US-10-025-380-882 Sequence 882, App 511 16  
c 439 16 0.9 300 10 US-09-833-263-882 Sequence 882, App 512 16  
c 440 16 0.9 303 10 US-09-998-598-77 Sequence 77, Appl 513 16  
c 441 16 0.9 303 10 US-09-960-352-1196 Sequence 1196, A 514 16  
c 442 16 0.9 305 10 US-09-820-089A-27 Sequence 27, Appl 515 16  
c 443 16 0.9 310 10 US-09-954-456-2104 Sequence 2104, Ap 516 16  
c 444 16 0.9 311 10 US-09-925-299-734 Sequence 734, App 517 16  
c 445 16 0.9 314 10 US-09-880-107-1027 Sequence 1027, Ap 518 16  
c 446 16 0.9 315 10 US-09-867-701-7731 Sequence 7731, Ap 519 16  
c 447 16 0.9 317 10 US-09-960-352-14196 Sequence 14196, A 520 16  
c 448 16 0.9 318 10 US-09-867-701-7761 Sequence 7761, Ap 521 16  
c 449 16 0.9 319 9 US-09-920-455-198 Sequence 198, App 522 16  
c 450 16 0.9 320 10 US-09-820-089A-27 Sequence 27, Appl 523 16  
c 451 16 0.9 320 10 US-09-969-708-434 Sequence 434, App 524 16  
c 452 16 0.9 321 9 US-09-954-456-1091 Sequence 1091, App 525 16  
c 453 16 0.9 322 9 US-09-989-920-140 Sequence 140, App 526 16  
c 454 16 0.9 322 9 US-09-954-531-595 Sequence 595, App 527 16  
c 455 16 0.9 322 10 US-09-962-436-296 Sequence 296, App 528 16  
c 456 16 0.9 324 10 US-09-960-352-9118 Sequence 9118, Ap 529 16  
c 457 16 0.9 326 10 US-09-813-358-129 Sequence 129, App 530 16

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Sequence 4646, Ap  
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Sequence 3551, Ap  
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Sequence 50, Appl  
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Sequence 65, Appl  
Sequence 49, Appl  
Sequence 302, App  
Sequence 406, App

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| 531 | 16 | 0.9 | 426 | 10 | US-09-813-358-190   | Sequence 190, App  | 604   | 16 | 0.9 | 491 | 10 | US-09-738-973-90     | Sequence 90, Appl  |
| 532 | 16 | 0.9 | 426 | 10 | US-09-960-352-556   | Sequence 556, App  | c 605 | 16 | 0.9 | 491 | 10 | US-09-917-800A-452   | Sequence 452, App  |
| 533 | 16 | 0.9 | 428 | 10 | US-09-895-828-45    | Sequence 45, Appl  | c 606 | 16 | 0.9 | 494 | 9  | US-09-954-531-105    | Sequence 105, App  |
| 534 | 16 | 0.9 | 431 | 10 | US-09-783-590-5592  | Sequence 5592, App | c 607 | 16 | 0.9 | 494 | 10 | US-09-867-701-3275   | Sequence 3275, App |
| 535 | 16 | 0.9 | 432 | 10 | US-09-944-456-2110  | Sequence 2110, App | c 608 | 16 | 0.9 | 495 | 10 | US-09-924-038A-678   | Sequence 678, App  |
| 536 | 16 | 0.9 | 432 | 10 | US-09-917-800A-463  | Sequence 463, App  | 609   | 16 | 0.9 | 498 | 10 | US-09-920-300A-1622  | Sequence 1622, App |
| 537 | 16 | 0.9 | 433 | 10 | US-09-735-705-58    | Sequence 58, Appl  | 610   | 16 | 0.9 | 498 | 12 | US-10-033-528-1622   | Sequence 1622, App |
| 538 | 16 | 0.9 | 433 | 10 | US-09-850-716A-58   | Sequence 58, Appl  | 611   | 16 | 0.9 | 499 | 9  | US-09-232-880-73     | Sequence 73, Appl  |
| 539 | 16 | 0.9 | 433 | 10 | US-09-897-778-58    | Sequence 58, Appl  | 612   | 16 | 0.9 | 499 | 9  | US-10-012-896-73     | Sequence 73, Appl  |
| 540 | 16 | 0.9 | 434 | 10 | US-09-864-761-3274  | Sequence 3274, App | 613   | 16 | 0.9 | 499 | 9  | US-09-895-793-73     | Sequence 73, Appl  |
| 541 | 16 | 0.9 | 434 | 10 | US-09-919-580-133   | Sequence 133, App  | 614   | 16 | 0.9 | 499 | 9  | US-09-895-814-73     | Sequence 73, Appl  |
| 542 | 16 | 0.9 | 434 | 10 | US-09-919-580-133   | Sequence 133, App  | 615   | 16 | 0.9 | 499 | 10 | US-09-759-143-73     | Sequence 73, Appl  |
| 543 | 16 | 0.9 | 436 | 9  | US-10-079-623-19    | Sequence 19, Appl  | 616   | 16 | 0.9 | 499 | 10 | US-09-780-669-73     | Sequence 73, Appl  |
| 544 | 16 | 0.9 | 436 | 10 | US-09-867-701-1890  | Sequence 1890, App | 617   | 16 | 0.9 | 499 | 10 | US-09-030-606-73     | Sequence 73, Appl  |
| 545 | 16 | 0.9 | 436 | 10 | US-09-924-035A-193  | Sequence 193, App  | 618   | 16 | 0.9 | 499 | 10 | US-09-822-827-73     | Sequence 73, Appl  |
| 546 | 16 | 0.9 | 437 | 10 | US-09-770-444-992   | Sequence 992, App  | 619   | 16 | 0.9 | 499 | 10 | US-09-115-453-73     | Sequence 73, Appl  |
| 547 | 16 | 0.9 | 439 | 10 | US-09-917-800A-626  | Sequence 626, App  | 620   | 16 | 0.9 | 505 | 10 | US-09-764-855-54     | Sequence 54, Appl  |
| 548 | 16 | 0.9 | 439 | 10 | US-09-917-800A-829  | Sequence 829, App  | 621   | 16 | 0.9 | 509 | 10 | US-09-864-761-8727   | Sequence 8727, App |
| 549 | 16 | 0.9 | 440 | 10 | US-09-770-444-929   | Sequence 929, App  | 622   | 16 | 0.9 | 509 | 10 | US-09-864-761-14830  | Sequence 14830, A  |
| 550 | 16 | 0.9 | 440 | 10 | US-09-983-965-2350  | Sequence 2350, App | 623   | 16 | 0.9 | 516 | 10 | US-09-864-761-13011  | Sequence 13011, A  |
| 551 | 16 | 0.9 | 445 | 10 | US-09-919-172-78    | Sequence 78, Appl  | 624   | 16 | 0.9 | 517 | 10 | US-09-867-701-872    | Sequence 872, App  |
| 552 | 16 | 0.9 | 445 | 10 | US-09-960-352-12164 | Sequence 12164, A  | 625   | 16 | 0.9 | 520 | 10 | US-09-864-761-8365   | Sequence 8365, App |
| 553 | 16 | 0.9 | 445 | 10 | US-09-924-035A-744  | Sequence 744, App  | 626   | 16 | 0.9 | 520 | 10 | US-09-867-701-1380   | Sequence 1380, App |
| 554 | 16 | 0.9 | 447 | 10 | US-09-867-701-4517  | Sequence 4517, App | 627   | 16 | 0.9 | 524 | 9  | US-09-933-797-764    | Sequence 764, App  |
| 555 | 16 | 0.9 | 448 | 10 | US-09-728-445-285   | Sequence 285, App  | 628   | 16 | 0.9 | 526 | 9  | US-09-954-531-476    | Sequence 476, App  |
| 556 | 16 | 0.9 | 449 | 10 | US-09-864-761-1920  | Sequence 1920, App | 629   | 16 | 0.9 | 531 | 10 | US-09-919-580-791    | Sequence 791, App  |
| 557 | 16 | 0.9 | 450 | 10 | US-09-983-965-2936  | Sequence 2936, App | 630   | 16 | 0.9 | 533 | 10 | US-09-764-898-46     | Sequence 46, Appl  |
| 558 | 16 | 0.9 | 451 | 10 | US-09-884-441-51    | Sequence 51, Appl  | 631   | 16 | 0.9 | 536 | 10 | US-09-876-889-67     | Sequence 67, Appl  |
| 559 | 16 | 0.9 | 453 | 10 | US-09-969-347-78    | Sequence 78, Appl  | 632   | 16 | 0.9 | 538 | 9  | US-09-232-880-105    | Sequence 105, App  |
| 560 | 16 | 0.9 | 454 | 9  | US-09-764-868-516   | Sequence 516, App  | 633   | 16 | 0.9 | 538 | 9  | US-10-012-896-105    | Sequence 105, App  |
| 561 | 16 | 0.9 | 454 | 10 | US-09-770-444-589   | Sequence 589, App  | 634   | 16 | 0.9 | 538 | 9  | US-09-895-793-105    | Sequence 105, App  |
| 562 | 16 | 0.9 | 455 | 10 | US-09-864-761-10104 | Sequence 10104, A  | 635   | 16 | 0.9 | 538 | 9  | US-09-895-814-105    | Sequence 105, App  |
| 563 | 16 | 0.9 | 455 | 10 | US-09-731-872-206   | Sequence 206, App  | 636   | 16 | 0.9 | 538 | 10 | US-09-759-143-105    | Sequence 105, App  |
| 564 | 16 | 0.9 | 455 | 10 | US-09-880-107-2531  | Sequence 2531, App | 637   | 16 | 0.9 | 538 | 10 | US-09-780-669-105    | Sequence 105, App  |
| 565 | 16 | 0.9 | 456 | 10 | US-09-880-107-10799 | Sequence 10799, A  | 638   | 16 | 0.9 | 538 | 10 | US-09-030-606-105    | Sequence 105, App  |
| 566 | 16 | 0.9 | 456 | 10 | US-09-998-598-823   | Sequence 823, App  | 639   | 16 | 0.9 | 538 | 10 | US-09-822-827-105    | Sequence 105, App  |
| 567 | 16 | 0.9 | 457 | 10 | US-09-770-444-508   | Sequence 508, App  | 640   | 16 | 0.9 | 538 | 10 | US-09-115-453-105    | Sequence 105, App  |
| 568 | 16 | 0.9 | 457 | 10 | US-09-783-590-2004  | Sequence 2004, App | 641   | 16 | 0.9 | 541 | 9  | US-09-852-797-37     | Sequence 37, Appl  |
| 569 | 16 | 0.9 | 457 | 10 | US-09-917-800A-322  | Sequence 322, App  | 642   | 16 | 0.9 | 541 | 10 | US-09-853-161-37     | Sequence 37, Appl  |
| 570 | 16 | 0.9 | 457 | 10 | US-09-764-877-3908  | Sequence 3908, App | 643   | 16 | 0.9 | 541 | 10 | US-09-852-659A-37    | Sequence 37, Appl  |
| 571 | 16 | 0.9 | 458 | 10 | US-09-954-456-107   | Sequence 107, App  | 644   | 16 | 0.9 | 550 | 10 | US-09-919-580-83     | Sequence 83, Appl  |
| 572 | 16 | 0.9 | 458 | 10 | US-09-954-456-334   | Sequence 334, App  | 645   | 16 | 0.9 | 555 | 10 | US-09-880-192-19     | Sequence 19, Appl  |
| 573 | 16 | 0.9 | 458 | 10 | US-09-764-877-825   | Sequence 825, App  | 646   | 16 | 0.9 | 556 | 10 | US-09-917-800A-24    | Sequence 24, Appl  |
| 574 | 16 | 0.9 | 459 | 10 | US-09-864-761-6170  | Sequence 6170, App | 647   | 16 | 0.9 | 557 | 10 | US-09-917-800A-45    | Sequence 45, Appl  |
| 575 | 16 | 0.9 | 459 | 10 | US-09-864-761-17532 | Sequence 17532, A  | 648   | 16 | 0.9 | 557 | 10 | US-09-917-800A-77    | Sequence 77, Appl  |
| 576 | 16 | 0.9 | 461 | 9  | US-10-011-445-15    | Sequence 16, Appl  | 649   | 16 | 0.9 | 562 | 10 | US-09-764-877-3907   | Sequence 3907, App |
| 577 | 16 | 0.9 | 463 | 10 | US-09-770-444-377   | Sequence 377, App  | 650   | 16 | 0.9 | 565 | 10 | US-09-895-686-68     | Sequence 68, Appl  |
| 578 | 16 | 0.9 | 464 | 10 | US-09-867-701-3272  | Sequence 3272, App | 651   | 16 | 0.9 | 565 | 10 | US-09-864-761-9029   | Sequence 9029, App |
| 579 | 16 | 0.9 | 464 | 10 | US-09-908-805B-37   | Sequence 37, Appl  | 652   | 16 | 0.9 | 570 | 10 | US-09-864-761-7140   | Sequence 7140, App |
| 580 | 16 | 0.9 | 465 | 10 | US-09-867-701-5154  | Sequence 5154, App | 653   | 16 | 0.9 | 570 | 10 | US-09-864-761-12053  | Sequence 12053, A  |
| 581 | 16 | 0.9 | 467 | 10 | US-09-834-975-470   | Sequence 470, App  | 654   | 16 | 0.9 | 574 | 9  | US-09-864-761-13571  | Sequence 13571, A  |
| 582 | 16 | 0.9 | 468 | 10 | US-09-880-107-3655  | Sequence 3655, App | 655   | 16 | 0.9 | 574 | 9  | US-10-012-896-356    | Sequence 356, App  |
| 583 | 16 | 0.9 | 472 | 10 | US-09-784-869-2324  | Sequence 2324, App | 656   | 16 | 0.9 | 574 | 9  | US-09-895-793-356    | Sequence 356, App  |
| 584 | 16 | 0.9 | 472 | 10 | US-09-954-456-1486  | Sequence 1486, App | 657   | 16 | 0.9 | 574 | 10 | US-09-759-143-356    | Sequence 356, App  |
| 585 | 16 | 0.9 | 474 | 10 | US-09-919-580-698   | Sequence 698, App  | 658   | 16 | 0.9 | 574 | 10 | US-09-780-669-356    | Sequence 356, App  |
| 586 | 16 | 0.9 | 475 | 10 | US-09-864-761-14064 | Sequence 14064, A  | 659   | 16 | 0.9 | 574 | 10 | US-09-822-827-356    | Sequence 356, App  |
| 587 | 16 | 0.9 | 477 | 10 | US-09-917-800A-420  | Sequence 420, App  | 660   | 16 | 0.9 | 579 | 10 | US-09-864-761-9907   | Sequence 9907, App |
| 588 | 16 | 0.9 | 477 | 10 | US-09-917-800A-539  | Sequence 539, App  | 661   | 16 | 0.9 | 593 | 10 | US-09-864-761-6991   | Sequence 6991, App |
| 589 | 16 | 0.9 | 478 | 10 | US-09-919-580-141   | Sequence 141, App  | 662   | 16 | 0.9 | 595 | 10 | US-09-764-877-3906   | Sequence 3906, App |
| 590 | 16 | 0.9 | 478 | 10 | US-09-998-598-1197  | Sequence 1197, App | 663   | 16 | 0.9 | 599 | 10 | US-09-864-761-6635   | Sequence 6635, App |
| 591 | 16 | 0.9 | 479 | 10 | US-09-917-800A-984  | Sequence 984, App  | 664   | 16 | 0.9 | 599 | 10 | US-09-864-761-13613  | Sequence 13613, A  |
| 592 | 16 | 0.9 | 479 | 10 | US-09-880-107-2877  | Sequence 2877, App | 665   | 16 | 0.9 | 608 | 10 | US-09-864-761-846-88 | Sequence 846, Appl |
| 593 | 16 | 0.9 | 481 | 9  | US-09-854-133-89    | Sequence 89, Appl  | 666   | 16 | 0.9 | 617 | 10 | US-09-770-149-821    | Sequence 770, Appl |
| 594 | 16 | 0.9 | 481 | 10 | US-09-738-973-89    | Sequence 89, Appl  | 667   | 16 | 0.9 | 634 | 10 | US-09-907-479-7      | Sequence 7, Appl   |
| 595 | 16 | 0.9 | 483 | 10 | US-09-864-761-14487 | Sequence 14487, A  | 668   | 16 | 0.9 | 636 | 10 | US-09-764-877-844    | Sequence 844, App  |
| 596 | 16 | 0.9 | 484 | 10 | US-09-864-761-11442 | Sequence 11442, A  | 669   | 16 | 0.9 | 639 | 10 | US-09-764-853-56     | Sequence 56, Appl  |
| 597 | 16 | 0.9 | 484 | 10 | US-09-764-846-66    | Sequence 66, Appl  | 670   | 16 | 0.9 | 647 | 10 | US-09-216-393-338    | Sequence 338, App  |
| 598 | 16 | 0.9 | 485 | 10 | US-09-864-761-10491 | Sequence 10491, A  | 671   | 16 | 0.9 | 647 | 10 | US-09-216-393-339    | Sequence 339, App  |
| 599 | 16 | 0.9 | 485 | 10 | US-09-764-869-526   | Sequence 526, App  | 672   | 16 | 0.9 | 648 | 10 | US-09-974-300-5398   | Sequence 5398, App |
| 600 | 16 | 0.9 | 489 | 10 | US-09-764-869-526   | Sequence 526, App  | 673   | 16 | 0.9 | 650 | 10 | US-09-974-300-5398   | Sequence 5398, App |
| 601 | 16 | 0.9 | 489 | 10 | US-09-728-445-321   | Sequence 321, App  | 674   | 16 | 0.9 | 658 | 10 | US-09-729-674-103    | Sequence 103, App  |
| 602 | 16 | 0.9 | 489 | 10 | US-09-867-701-2424  | Sequence 2424, App | 675   | 16 | 0.9 | 660 | 10 | US-09-974-300-5272   | Sequence 5272, App |
| 603 | 16 | 0.9 | 491 | 9  | US-09-854-133-90    | Sequence 90, Appl  | 676   | 16 | 0.9 | 661 | 10 | US-09-879-536-69     | Sequence 69, Appl  |

|       |    |     |      |    |                     |                    |       |    |     |      |    |                     |                    |
|-------|----|-----|------|----|---------------------|--------------------|-------|----|-----|------|----|---------------------|--------------------|
| c 677 | 16 | 0.9 | 666  | 10 | US-09-764-847-1724  | Sequence 1724, App | 750   | 16 | 0.9 | 1085 | 10 | US-09-731-872-169   | Sequence 169, App  |
| 678   | 16 | 0.9 | 673  | 10 | US-09-780-717-49    | Sequence 49, Appl  | 751   | 16 | 0.9 | 1102 | 10 | US-09-731-872-28    | Sequence 28, Appl  |
| 679   | 16 | 0.9 | 679  | 10 | US-09-910-943-307   | Sequence 307, App  | 752   | 16 | 0.9 | 1106 | 9  | US-09-764-868-300   | Sequence 300, App  |
| 680   | 16 | 0.9 | 682  | 10 | US-09-925-300-490   | Sequence 490, App  | 753   | 16 | 0.9 | 1107 | 9  | US-09-966-546-1     | Sequence 1, Appl   |
| c 681 | 16 | 0.9 | 687  | 9  | US-09-978-295A-469  | Sequence 469, App  | c 754 | 16 | 0.9 | 1107 | 9  | US-09-966-545-1     | Sequence 1, Appl   |
| c 682 | 16 | 0.9 | 687  | 9  | US-09-978-697-469   | Sequence 469, App  | 755   | 16 | 0.9 | 1117 | 9  | US-09-981-876-54    | Sequence 54, Appl  |
| c 683 | 16 | 0.9 | 687  | 9  | US-09-874-503-1     | Sequence 1, Appl   | 756   | 16 | 0.9 | 1137 | 10 | US-09-954-456-1582  | Sequence 1582, App |
| c 684 | 16 | 0.9 | 687  | 9  | US-09-978-192A-469  | Sequence 469, App  | 757   | 16 | 0.9 | 1150 | 10 | US-09-764-853-122   | Sequence 122, App  |
| c 685 | 16 | 0.9 | 687  | 9  | US-09-854-280-2     | Sequence 2, Appl   | 758   | 16 | 0.9 | 1150 | 10 | US-09-764-898-36    | Sequence 36, Appl  |
| c 686 | 16 | 0.9 | 687  | 9  | US-09-854-280-2     | Sequence 2, Appl   | 759   | 16 | 0.9 | 1154 | 12 | US-10-001-843-20    | Sequence 20, Appl  |
| c 687 | 16 | 0.9 | 687  | 9  | US-09-959-832A-469  | Sequence 469, App  | 760   | 16 | 0.9 | 1185 | 10 | US-09-886-055-342   | Sequence 342, App  |
| c 688 | 16 | 0.9 | 687  | 10 | US-09-854-280-2     | Sequence 2, Appl   | 761   | 16 | 0.9 | 1209 | 10 | US-09-823-356-28    | Sequence 28, Appl  |
| c 689 | 16 | 0.9 | 688  | 9  | US-09-736-457-644   | Sequence 644, App  | 762   | 16 | 0.9 | 1211 | 9  | US-09-981-876-123   | Sequence 123, App  |
| c 690 | 16 | 0.9 | 688  | 9  | US-09-902-941-644   | Sequence 644, App  | 763   | 16 | 0.9 | 1212 | 9  | US-10-114-893-157   | Sequence 157, App  |
| c 691 | 16 | 0.9 | 691  | 10 | US-09-864-761-19557 | Sequence 19557, A  | c 764 | 16 | 0.9 | 1227 | 10 | US-09-815-242-6039  | Sequence 6039, App |
| 692   | 16 | 0.9 | 700  | 9  | US-09-852-797-26    | Sequence 26, Appl  | 765   | 16 | 0.9 | 1232 | 10 | US-09-728-952-60    | Sequence 60, Appl  |
| 693   | 16 | 0.9 | 700  | 10 | US-09-853-161-26    | Sequence 26, Appl  | 766   | 16 | 0.9 | 1240 | 10 | US-09-925-297-259   | Sequence 259, App  |
| 694   | 16 | 0.9 | 700  | 10 | US-09-852-659A-26   | Sequence 26, Appl  | 767   | 16 | 0.9 | 1244 | 10 | US-09-764-864-101   | Sequence 101, App  |
| 695   | 16 | 0.9 | 713  | 10 | US-09-764-846-136   | Sequence 136, App  | 768   | 16 | 0.9 | 1250 | 10 | US-09-925-301-538   | Sequence 538, App  |
| 696   | 16 | 0.9 | 715  | 10 | US-09-917-800A-1717 | Sequence 1717, App | 769   | 16 | 0.9 | 1250 | 10 | US-09-925-301-538   | Sequence 538, App  |
| 697   | 16 | 0.9 | 732  | 9  | US-09-854-133-429   | Sequence 429, App  | 770   | 16 | 0.9 | 1253 | 10 | US-09-764-864-551   | Sequence 551, App  |
| 698   | 16 | 0.9 | 732  | 10 | US-09-738-973-429   | Sequence 429, App  | 771   | 16 | 0.9 | 1256 | 10 | US-09-925-301-571   | Sequence 571, App  |
| 699   | 16 | 0.9 | 736  | 10 | US-09-925-301-548   | Sequence 548, App  | 772   | 16 | 0.9 | 1265 | 9  | US-10-103-949-6     | Sequence 287, App  |
| c 700 | 16 | 0.9 | 743  | 10 | US-09-770-149-47    | Sequence 47, Appl  | 773   | 16 | 0.9 | 1296 | 10 | US-09-925-302-311   | Sequence 311, App  |
| 701   | 16 | 0.9 | 752  | 10 | US-09-770-445-998   | Sequence 998, App  | c 774 | 16 | 0.9 | 1325 | 9  | US-09-989-920-85    | Sequence 85, Appl  |
| 702   | 16 | 0.9 | 756  | 10 | US-09-925-301-196   | Sequence 196, App  | 775   | 16 | 0.9 | 1335 | 9  | US-09-938-842A-2935 | Sequence 2935, App |
| 703   | 16 | 0.9 | 771  | 10 | US-09-910-943-579   | Sequence 579, App  | 776   | 16 | 0.9 | 1338 | 9  | US-09-903-170C-2    | Sequence 2, Appl   |
| c 704 | 16 | 0.9 | 776  | 9  | US-09-854-133-63    | Sequence 63, Appl  | 777   | 16 | 0.9 | 1338 | 9  | US-09-903-180B-2    | Sequence 2, Appl   |
| c 705 | 16 | 0.9 | 776  | 10 | US-09-738-973-63    | Sequence 63, Appl  | 778   | 16 | 0.9 | 1338 | 10 | US-09-903-171A-2    | Sequence 2, Appl   |
| 706   | 16 | 0.9 | 795  | 9  | US-09-764-887-73    | Sequence 73, Appl  | 779   | 16 | 0.9 | 1338 | 10 | US-09-903-188A-2    | Sequence 2, Appl   |
| 707   | 16 | 0.9 | 805  | 9  | US-09-981-876-48    | Sequence 48, Appl  | 780   | 16 | 0.9 | 1338 | 10 | US-09-903-323A-2    | Sequence 2, Appl   |
| c 708 | 16 | 0.9 | 805  | 10 | US-09-974-300-1407  | Sequence 1407, App | 781   | 16 | 0.9 | 1338 | 10 | US-09-903-325A-2    | Sequence 2, Appl   |
| c 709 | 16 | 0.9 | 808  | 10 | US-09-729-674-83    | Sequence 83, Appl  | 782   | 16 | 0.9 | 1355 | 10 | US-09-925-301-19    | Sequence 19, Appl  |
| c 710 | 16 | 0.9 | 812  | 10 | US-09-867-550-1651  | Sequence 1651, App | 783   | 16 | 0.9 | 1356 | 10 | US-09-925-301-19    | Sequence 19, Appl  |
| 711   | 16 | 0.9 | 813  | 10 | US-09-815-242-7295  | Sequence 7295, App | 784   | 16 | 0.9 | 1360 | 10 | US-09-925-301-19    | Sequence 19, Appl  |
| 712   | 16 | 0.9 | 813  | 10 | US-09-969-708-502   | Sequence 502, App  | 785   | 16 | 0.9 | 1360 | 10 | US-09-925-301-19    | Sequence 19, Appl  |
| c 713 | 16 | 0.9 | 815  | 9  | US-10-202-193-229   | Sequence 229, App  | 786   | 16 | 0.9 | 1390 | 10 | US-09-915-582-18    | Sequence 18, Appl  |
| c 714 | 16 | 0.9 | 815  | 12 | US-10-044-090-201   | Sequence 201, App  | 787   | 16 | 0.9 | 1395 | 12 | US-10-091-009-8     | Sequence 8, Appl   |
| c 715 | 16 | 0.9 | 830  | 10 | US-09-854-280-5     | Sequence 5, Appl   | 788   | 16 | 0.9 | 1395 | 12 | US-10-091-009-8     | Sequence 8, Appl   |
| c 716 | 16 | 0.9 | 830  | 10 | US-09-854-280-5     | Sequence 5, Appl   | 789   | 16 | 0.9 | 1400 | 10 | US-09-925-301-286   | Sequence 286, App  |
| 717   | 16 | 0.9 | 838  | 10 | US-09-925-301-210   | Sequence 210, App  | 790   | 16 | 0.9 | 1400 | 10 | US-09-925-301-286   | Sequence 286, App  |
| 718   | 16 | 0.9 | 843  | 10 | US-09-764-860-1013  | Sequence 1013, App | 791   | 16 | 0.9 | 1428 | 9  | US-09-764-868-360   | Sequence 360, App  |
| 719   | 16 | 0.9 | 843  | 10 | US-09-917-800A-1446 | Sequence 1446, App | c 792 | 16 | 0.9 | 1438 | 9  | US-09-989-920-141   | Sequence 141, App  |
| 720   | 16 | 0.9 | 852  | 9  | US-09-938-842A-1070 | Sequence 1070, App | 793   | 16 | 0.9 | 1439 | 10 | US-09-925-302-201   | Sequence 201, App  |
| c 721 | 16 | 0.9 | 864  | 10 | US-09-768-887-17    | Sequence 17, Appl  | 794   | 16 | 0.9 | 1441 | 9  | US-09-989-919-60    | Sequence 60, Appl  |
| c 722 | 16 | 0.9 | 872  | 12 | US-10-044-090-518   | Sequence 518, App  | 795   | 16 | 0.9 | 1441 | 9  | US-09-925-301-333   | Sequence 333, App  |
| 723   | 16 | 0.9 | 874  | 9  | US-10-076-785-51    | Sequence 51, Appl  | 796   | 16 | 0.9 | 1447 | 10 | US-09-764-864-177   | Sequence 177, App  |
| 724   | 16 | 0.9 | 877  | 10 | US-09-833-381-824   | Sequence 824, App  | c 797 | 16 | 0.9 | 1461 | 10 | US-09-900-672B-4    | Sequence 4, Appl   |
| 725   | 16 | 0.9 | 901  | 10 | US-09-974-300-2048  | Sequence 2048, App | c 798 | 16 | 0.9 | 1462 | 10 | US-09-764-869-2325  | Sequence 2325, App |
| 726   | 16 | 0.9 | 910  | 9  | US-09-984-245-77    | Sequence 77, Appl  | 799   | 16 | 0.9 | 1492 | 10 | US-09-867-550-761   | Sequence 761, App  |
| 727   | 16 | 0.9 | 910  | 10 | US-09-393-634-38    | Sequence 38, Appl  | 800   | 16 | 0.9 | 1508 | 12 | US-10-062-254-291   | Sequence 291, App  |
| 728   | 16 | 0.9 | 937  | 10 | US-09-770-445-370   | Sequence 370, App  | 801   | 16 | 0.9 | 1533 | 9  | US-09-978-295A-302  | Sequence 302, App  |
| 729   | 16 | 0.9 | 939  | 10 | US-09-886-055-230   | Sequence 230, App  | 802   | 16 | 0.9 | 1533 | 9  | US-09-978-692A-302  | Sequence 302, App  |
| 730   | 16 | 0.9 | 940  | 10 | US-09-764-860-208   | Sequence 208, App  | 803   | 16 | 0.9 | 1533 | 9  | US-09-999-832A-302  | Sequence 302, App  |
| c 731 | 16 | 0.9 | 956  | 10 | US-09-925-301-282   | Sequence 282, App  | 804   | 16 | 0.9 | 1533 | 12 | US-10-052-586-181   | Sequence 181, App  |
| 732   | 16 | 0.9 | 967  | 10 | US-09-770-445-294   | Sequence 294, App  | c 805 | 16 | 0.9 | 1554 | 10 | US-09-794-960-3     | Sequence 3, Appl   |
| 733   | 16 | 0.9 | 971  | 10 | US-09-925-297-175   | Sequence 175, App  | 806   | 16 | 0.9 | 1557 | 10 | US-09-774-434-6     | Sequence 6, Appl   |
| c 734 | 16 | 0.9 | 980  | 12 | US-10-044-090-517   | Sequence 517, App  | 807   | 16 | 0.9 | 1558 | 9  | US-09-764-868-124   | Sequence 124, App  |
| c 735 | 16 | 0.9 | 981  | 10 | US-09-770-445-271   | Sequence 271, App  | 808   | 16 | 0.9 | 1558 | 10 | US-09-939-825-6     | Sequence 6, Appl   |
| c 736 | 16 | 0.9 | 987  | 9  | US-09-938-842A-294  | Sequence 294, App  | c 809 | 16 | 0.9 | 1568 | 10 | US-09-880-107-2144  | Sequence 2144, App |
| c 737 | 16 | 0.9 | 987  | 10 | US-09-815-242-9144  | Sequence 9144, App | 810   | 16 | 0.9 | 1568 | 10 | US-09-880-107-2144  | Sequence 2144, App |
| 738   | 16 | 0.9 | 991  | 10 | US-09-770-445-255   | Sequence 255, App  | 811   | 16 | 0.9 | 1569 | 10 | US-09-764-847-1742  | Sequence 1742, App |
| c 739 | 16 | 0.9 | 1002 | 10 | US-09-754-105-1     | Sequence 1, Appl   | c 812 | 16 | 0.9 | 1569 | 10 | US-09-983-531A-23   | Sequence 23, Appl  |
| c 740 | 16 | 0.9 | 1008 | 10 | US-09-731-872-205   | Sequence 205, App  | 813   | 16 | 0.9 | 1597 | 10 | US-09-925-300-656   | Sequence 656, App  |
| 741   | 16 | 0.9 | 1013 | 10 | US-09-925-301-174   | Sequence 174, App  | 814   | 16 | 0.9 | 1605 | 10 | US-09-925-300-776   | Sequence 776, App  |
| 742   | 16 | 0.9 | 1031 | 10 | US-09-925-301-381   | Sequence 381, App  | 815   | 16 | 0.9 | 1641 | 10 | US-09-815-876-1     | Sequence 1, Appl   |
| c 743 | 16 | 0.9 | 1044 | 9  | US-09-974-298-192   | Sequence 192, App  | 816   | 16 | 0.9 | 1643 | 9  | US-09-822-830A-302  | Sequence 302, App  |
| 744   | 16 | 0.9 | 1044 | 10 | US-09-925-299-63    | Sequence 63, Appl  | 817   | 16 | 0.9 | 1644 | 9  | US-09-938-842A-446  | Sequence 446, App  |
| 745   | 16 | 0.9 | 1076 | 9  | US-09-984-245-113   | Sequence 113, App  | c 818 | 16 | 0.9 | 1662 | 9  | US-09-938-842A-446  | Sequence 446, App  |
| 746   | 16 | 0.9 | 1079 | 9  | US-10-103-511-2     | Sequence 2, Appl   | 819   | 16 | 0.9 | 1673 | 10 | US-09-927-738-12    | Sequence 12, Appl  |
| 747   | 16 | 0.9 | 1079 | 9  | US-09-805-204-2     | Sequence 2, Appl   | 820   | 16 | 0.9 | 1709 | 10 | US-09-925-300-130   | Sequence 130, App  |
| 748   | 16 | 0.9 | 1083 | 10 | US-09-886-055-24    | Sequence 24, Appl  | 821   | 16 | 0.9 | 1743 | 10 | US-09-917-800A-1349 | Sequence 1349, App |
| 749   | 16 | 0.9 |      |    |                     |                    | c 822 | 16 | 0.9 | 1745 | 9  | US-10-025-380-1051  | Sequence 1051, App |

|       |    |     |      |    |                     |                    |       |    |     |      |    |                     |                    |
|-------|----|-----|------|----|---------------------|--------------------|-------|----|-----|------|----|---------------------|--------------------|
| c 823 | 16 | 0.9 | 1745 | 10 | US-09-819-252-1     | Sequence 1, Appli  | 896   | 16 | 0.9 | 2189 | 10 | US-09-739-451-1     | Sequence 1, Appli  |
| c 824 | 16 | 0.9 | 1745 | 10 | US-09-922-217-1051  | Sequence 1051, Ap  | 897   | 16 | 0.9 | 2201 | 10 | US-09-731-872-1     | Sequence 1, Appli  |
| c 825 | 16 | 0.9 | 1745 | 10 | US-09-833-263-1051  | Sequence 1051, Ap  | c 898 | 16 | 0.9 | 2204 | 10 | US-09-768-877-9     | Sequence 9, Appli  |
| c 826 | 16 | 0.9 | 1766 | 10 | US-09-822-830A-207  | Sequence 207, App  | 899   | 16 | 0.9 | 2230 | 10 | US-09-925-299-87    | Sequence 87, Appli |
| c 827 | 16 | 0.9 | 1773 | 10 | US-09-739-451-9     | Sequence 9, Appli  | 900   | 16 | 0.9 | 2236 | 10 | US-09-822-849A-295  | Sequence 295, App  |
| c 828 | 16 | 0.9 | 1773 | 10 | US-09-764-864-298   | Sequence 298, App  | 901   | 16 | 0.9 | 2239 | 10 | US-09-925-301-227   | Sequence 227, App  |
| c 829 | 16 | 0.9 | 1785 | 10 | US-09-216-393-311   | Sequence 311, App  | 902   | 16 | 0.9 | 2251 | 10 | US-09-925-302-180   | Sequence 180, App  |
| c 830 | 16 | 0.9 | 1785 | 10 | US-09-216-393-313   | Sequence 313, App  | 903   | 16 | 0.9 | 2260 | 10 | US-09-764-864-200   | Sequence 200, App  |
| c 831 | 16 | 0.9 | 1791 | 10 | US-09-880-107-3385  | Sequence 3385, Ap  | 904   | 16 | 0.9 | 2288 | 10 | US-09-996-620-11    | Sequence 11, Appli |
| c 832 | 16 | 0.9 | 1798 | 10 | US-09-880-107-3413  | Sequence 3413, Ap  | 905   | 16 | 0.9 | 2290 | 10 | US-09-822-849A-152  | Sequence 152, App  |
| c 833 | 16 | 0.9 | 1807 | 9  | US-09-992-598-215   | Sequence 215, App  | c 906 | 16 | 0.9 | 2290 | 10 | US-09-822-849A-152  | Sequence 152, App  |
| c 834 | 16 | 0.9 | 1807 | 9  | US-09-989-293A-215  | Sequence 215, App  | 907   | 16 | 0.9 | 2297 | 10 | US-09-768-877-5     | Sequence 5, Appli  |
| c 835 | 16 | 0.9 | 1807 | 9  | US-09-989-735-215   | Sequence 215, App  | 908   | 16 | 0.9 | 2309 | 10 | US-09-996-620-13    | Sequence 13, Appli |
| c 836 | 16 | 0.9 | 1807 | 9  | US-09-990-444-215   | Sequence 215, App  | 909   | 16 | 0.9 | 2312 | 10 | US-09-929-315-1     | Sequence 1, Appli  |
| c 837 | 16 | 0.9 | 1807 | 10 | US-09-989-722-215   | Sequence 215, App  | 910   | 16 | 0.9 | 2312 | 10 | US-09-929-315-1     | Sequence 1, Appli  |
| c 838 | 16 | 0.9 | 1807 | 10 | US-09-989-723-215   | Sequence 215, App  | c 911 | 16 | 0.9 | 2335 | 10 | US-09-996-620-9     | Sequence 9, Appli  |
| c 839 | 16 | 0.9 | 1807 | 10 | US-09-989-729-215   | Sequence 215, App  | c 912 | 16 | 0.9 | 2355 | 10 | US-09-745-763-99    | Sequence 99, Appli |
| c 840 | 16 | 0.9 | 1807 | 10 | US-09-989-727-215   | Sequence 215, App  | 913   | 16 | 0.9 | 2358 | 10 | US-09-925-302-250   | Sequence 250, App  |
| c 841 | 16 | 0.9 | 1807 | 10 | US-09-989-731-215   | Sequence 215, App  | 914   | 16 | 0.9 | 2359 | 10 | US-09-996-620-17    | Sequence 17, Appli |
| c 842 | 16 | 0.9 | 1807 | 10 | US-09-989-732-215   | Sequence 215, App  | 915   | 16 | 0.9 | 2375 | 10 | US-09-764-864-232   | Sequence 232, App  |
| c 843 | 16 | 0.9 | 1807 | 10 | US-09-991-073-215   | Sequence 215, App  | 916   | 16 | 0.9 | 2415 | 10 | US-09-764-864-170   | Sequence 170, App  |
| c 844 | 16 | 0.9 | 1807 | 10 | US-09-990-442-215   | Sequence 215, App  | 917   | 16 | 0.9 | 2431 | 10 | US-09-925-300-464   | Sequence 464, App  |
| c 845 | 16 | 0.9 | 1807 | 10 | US-09-931-163-215   | Sequence 215, App  | c 918 | 16 | 0.9 | 2455 | 10 | US-09-768-877-13    | Sequence 13, Appli |
| c 846 | 16 | 0.9 | 1807 | 10 | US-09-993-604-215   | Sequence 215, App  | 919   | 16 | 0.9 | 2493 | 10 | US-09-925-299-218   | Sequence 218, App  |
| c 847 | 16 | 0.9 | 1807 | 10 | US-09-990-456-215   | Sequence 215, App  | 920   | 16 | 0.9 | 2511 | 10 | US-09-768-877-19    | Sequence 19, Appli |
| c 848 | 16 | 0.9 | 1807 | 10 | US-09-989-721-215   | Sequence 215, App  | 921   | 16 | 0.9 | 2512 | 10 | US-09-915-582-26    | Sequence 26, Appli |
| c 849 | 16 | 0.9 | 1812 | 10 | US-09-925-300-724   | Sequence 724, App  | 922   | 16 | 0.9 | 2516 | 10 | US-09-768-877-11    | Sequence 11, Appli |
| c 850 | 16 | 0.9 | 1817 | 9  | US-09-764-868-68    | Sequence 68, Appli | c 923 | 16 | 0.9 | 2521 | 10 | US-09-925-300-521   | Sequence 521, App  |
| c 851 | 16 | 0.9 | 1820 | 10 | US-09-996-620-15    | Sequence 15, Appli | 924   | 16 | 0.9 | 2563 | 10 | US-09-782-051-1     | Sequence 1, Appli  |
| c 852 | 16 | 0.9 | 1827 | 10 | US-09-822-849A-291  | Sequence 291, App  | 925   | 16 | 0.9 | 2576 | 9  | US-09-470-276-53    | Sequence 53, Appli |
| c 853 | 16 | 0.9 | 1837 | 10 | US-09-925-301-365   | Sequence 365, App  | 926   | 16 | 0.9 | 2581 | 10 | US-09-742-732-1     | Sequence 1, Appli  |
| c 854 | 16 | 0.9 | 1840 | 10 | US-09-925-300-473   | Sequence 473, App  | 927   | 16 | 0.9 | 2608 | 10 | US-09-919-172-67    | Sequence 67, Appli |
| c 855 | 16 | 0.9 | 1850 | 10 | US-09-833-381-1018  | Sequence 1018, Ap  | c 928 | 16 | 0.9 | 2620 | 10 | US-09-768-877-3     | Sequence 3, Appli  |
| c 856 | 16 | 0.9 | 1851 | 10 | US-09-745-763-35    | Sequence 35, Appli | 929   | 16 | 0.9 | 2622 | 9  | US-10-011-445-17    | Sequence 17, Appli |
| c 857 | 16 | 0.9 | 1856 | 9  | US-09-938-842A-4509 | Sequence 4509, Ap  | 930   | 16 | 0.9 | 2622 | 10 | US-09-917-800A-1644 | Sequence 1644, Ap  |
| c 858 | 16 | 0.9 | 1877 | 12 | US-10-021-121-1     | Sequence 1, Appli  | 931   | 16 | 0.9 | 2636 | 10 | US-09-836-077-1     | Sequence 1, Appli  |
| c 859 | 16 | 0.9 | 1908 | 9  | US-09-917-286-3     | Sequence 3, Appli  | 932   | 16 | 0.9 | 2674 | 9  | US-10-003-295-1     | Sequence 1, Appli  |
| c 860 | 16 | 0.9 | 1916 | 10 | US-09-925-297-296   | Sequence 296, App  | 933   | 16 | 0.9 | 2687 | 10 | US-09-764-864-189   | Sequence 189, App  |
| c 861 | 16 | 0.9 | 1931 | 10 | US-09-925-301-454   | Sequence 454, App  | 934   | 16 | 0.9 | 2692 | 10 | US-09-908-322-11    | Sequence 11, Appli |
| c 862 | 16 | 0.9 | 1936 | 10 | US-09-917-800A-1562 | Sequence 1562, App | 935   | 16 | 0.9 | 2703 | 9  | US-09-989-545-11    | Sequence 11, Appli |
| c 863 | 16 | 0.9 | 1936 | 10 | US-09-925-300-745   | Sequence 745, App  | 936   | 16 | 0.9 | 2709 | 10 | US-09-774-490-1     | Sequence 1, Appli  |
| c 864 | 16 | 0.9 | 1952 | 9  | US-09-954-531-585   | Sequence 585, App  | 937   | 16 | 0.9 | 2723 | 9  | US-10-114-893-92    | Sequence 92, Appli |
| c 865 | 16 | 0.9 | 1952 | 10 | US-09-967-768A-195  | Sequence 195, App  | 938   | 16 | 0.9 | 2745 | 10 | US-09-925-301-200   | Sequence 200, App  |
| c 866 | 16 | 0.9 | 1954 | 9  | US-09-764-868-33    | Sequence 33, Appli | 939   | 16 | 0.9 | 2752 | 10 | US-09-833-381-1426  | Sequence 1426, App |
| c 867 | 16 | 0.9 | 1959 | 10 | US-09-880-107-3410  | Sequence 3410, Ap  | 940   | 16 | 0.9 | 2771 | 10 | US-09-974-300-1523  | Sequence 1523, Ap  |
| c 868 | 16 | 0.9 | 1965 | 9  | US-09-783-252-19    | Sequence 19, Appli | c 941 | 16 | 0.9 | 2776 | 10 | US-09-834-375-819   | Sequence 819, App  |
| c 869 | 16 | 0.9 | 1969 | 12 | US-10-052-586-193   | Sequence 193, App  | 942   | 16 | 0.9 | 2827 | 10 | US-09-764-853-165   | Sequence 165, App  |
| c 870 | 16 | 0.9 | 1975 | 9  | US-09-764-868-1472  | Sequence 1472, Ap  | c 943 | 16 | 0.9 | 2844 | 10 | US-09-871-889-2     | Sequence 2, Appli  |
| c 871 | 16 | 0.9 | 1976 | 10 | US-09-864-761-5052  | Sequence 5052, Ap  | 944   | 16 | 0.9 | 2848 | 10 | US-09-983-531A-11   | Sequence 11, Appli |
| c 872 | 16 | 0.9 | 1984 | 10 | US-09-903-068-1     | Sequence 1, Appli  | 945   | 16 | 0.9 | 2857 | 10 | US-09-908-322-4     | Sequence 4, Appli  |
| c 873 | 16 | 0.9 | 1991 | 10 | US-09-864-761-13918 | Sequence 13918, A  | 946   | 16 | 0.9 | 2863 | 10 | US-09-795-232-1     | Sequence 1, Appli  |
| c 874 | 16 | 0.9 | 2000 | 9  | US-09-938-842A-2768 | Sequence 2768, Ap  | 947   | 16 | 0.9 | 2890 | 10 | US-09-925-300-763   | Sequence 763, App  |
| c 875 | 16 | 0.9 | 2000 | 9  | US-09-938-842A-3000 | Sequence 3000, Ap  | 948   | 16 | 0.9 | 2899 | 10 | US-09-908-322-24    | Sequence 24, Appli |
| c 876 | 16 | 0.9 | 2000 | 9  | US-09-938-842A-3535 | Sequence 3535, Ap  | c 949 | 16 | 0.9 | 2902 | 10 | US-09-921-771-3     | Sequence 3, Appli  |
| c 877 | 16 | 0.9 | 2000 | 9  | US-09-938-842A-3657 | Sequence 3657, Ap  | 950   | 16 | 0.9 | 2918 | 10 | US-09-764-870-94    | Sequence 94, Appli |
| c 878 | 16 | 0.9 | 2000 | 9  | US-09-938-842A-4643 | Sequence 4643, Ap  | c 951 | 16 | 0.9 | 2939 | 10 | US-09-764-877-3661  | Sequence 3661, Ap  |
| c 879 | 16 | 0.9 | 2000 | 9  | US-09-938-842A-4888 | Sequence 4888, Ap  | c 952 | 16 | 0.9 | 3003 | 9  | US-10-047-542-3     | Sequence 3, Appli  |
| c 880 | 16 | 0.9 | 2001 | 10 | US-09-768-877-7     | Sequence 7, Appli  | c 953 | 16 | 0.9 | 3003 | 10 | US-09-880-107-2303  | Sequence 2303, Ap  |
| c 881 | 16 | 0.9 | 2007 | 10 | US-09-820-893-11    | Sequence 11, Appli | 954   | 16 | 0.9 | 3020 | 10 | US-09-954-456-720   | Sequence 720, App  |
| c 882 | 16 | 0.9 | 2030 | 10 | US-09-761-569-1     | Sequence 1, Appli  | 955   | 16 | 0.9 | 3037 | 10 | US-09-917-800A-1492 | Sequence 1492, Ap  |
| c 883 | 16 | 0.9 | 2039 | 10 | US-09-782-378A-18   | Sequence 18, Appli | 956   | 16 | 0.9 | 3057 | 10 | US-09-843-164-19    | Sequence 19, Appli |
| c 884 | 16 | 0.9 | 2054 | 10 | US-10-001-887-55    | Sequence 55, Appli | c 957 | 16 | 0.9 | 3062 | 10 | US-09-880-107-3382  | Sequence 3382, Ap  |
| c 885 | 16 | 0.9 | 2054 | 10 | US-09-822-830A-610  | Sequence 610, App  | c 958 | 16 | 0.9 | 3067 | 9  | US-09-974-298-181   | Sequence 181, App  |
| c 886 | 16 | 0.9 | 2063 | 10 | US-09-925-302-169   | Sequence 169, App  | 959   | 16 | 0.9 | 3073 | 10 | US-09-954-456-2223  | Sequence 2223, Ap  |
| c 887 | 16 | 0.9 | 2091 | 10 | US-09-529-063-36    | Sequence 36, Appli | 960   | 16 | 0.9 | 3073 | 10 | US-09-880-107-3786  | Sequence 3786, Ap  |
| c 888 | 16 | 0.9 | 2103 | 9  | US-09-954-531-1347  | Sequence 1347, Ap  | 961   | 16 | 0.9 | 3103 | 10 | US-09-925-302-115   | Sequence 115, App  |
| c 889 | 16 | 0.9 | 2103 | 10 | US-09-967-768A-124  | Sequence 124, App  | 962   | 16 | 0.9 | 3142 | 10 | US-09-921-771-1     | Sequence 1, Appli  |
| c 890 | 16 | 0.9 | 2130 | 9  | US-09-812-238B-1    | Sequence 1, Appli  | 963   | 16 | 0.9 | 3170 | 12 | US-10-052-586-249   | Sequence 249, App  |
| c 891 | 16 | 0.9 | 2130 | 10 | US-09-862-260A-1    | Sequence 1, Appli  | 964   | 16 | 0.9 | 3231 | 9  | US-09-944-413-14    | Sequence 14, Appli |
| c 892 | 16 | 0.9 | 2133 | 10 | US-09-880-107-2091  | Sequence 2091, Ap  | 965   | 16 | 0.9 | 3231 | 9  | US-09-944-403-14    | Sequence 14, Appli |
| c 893 | 16 | 0.9 | 2170 | 10 | US-09-925-300-642   | Sequence 642, App  | 966   | 16 | 0.9 | 3231 | 9  | US-09-944-896-14    | Sequence 14, Appli |
| c 894 | 16 | 0.9 | 2180 | 10 | US-09-794-960-1     | Sequence 1, Appli  | 967   | 16 | 0.9 | 3231 | 9  | US-09-944-944-14    | Sequence 14, Appli |
| c 895 | 16 | 0.9 | 2186 | 12 | US-10-002-600-61    | Sequence 61, Appli | 968   | 16 | 0.9 | 3231 | 10 | US-09-866-028-14    | Sequence 14, Appli |



969 16 0.9 3231 10 US-09-944-449-14  
970 16 0.9 3231 10 US-09-944-457-14  
971 16 0.9 3231 10 US-09-945-587-14  
972 16 0.9 3231 10 US-09-945-015-14  
973 16 0.9 3231 10 US-09-944-395-14  
974 16 0.9 3231 10 US-09-944-097-14  
975 16 0.9 3231 10 US-09-944-432-14  
976 16 0.9 3231 10 US-09-943-762-14  
977 16 0.9 3231 10 US-09-943-654-14  
978 16 0.9 3231 10 US-09-943-851A-14  
979 16 0.9 3231 12 US-10-052-586-37  
980 16 0.9 3271 12 US-10-044-090-534  
c 981 16 0.9 3305 9 US-09-978-295A-73  
c 982 16 0.9 3305 9 US-09-978-697-73  
c 983 16 0.9 3305 9 US-09-978-192A-73  
c 984 16 0.9 3305 9 US-09-999-832A-73  
c 985 16 0.9 3305 12 US-10-052-586-87  
c 986 16 0.9 3319 10 US-09-925-297-104  
c 987 16 0.9 3329 10 US-09-090-672B-5  
988 16 0.9 3343 10 US-09-729-674-153  
989 16 0.9 3345 10 US-09-796-858-39  
990 16 0.9 3346 9 US-09-764-868-67  
991 16 0.9 3364 10 US-09-925-300-665  
c 992 16 0.9 3378 9 US-09-964-899-48  
c 993 16 0.9 3381 10 US-09-764-847-1092  
994 16 0.9 3394 10 US-09-880-107-2178  
c 995 16 0.9 3406 10 US-09-954-456-1789  
c 996 16 0.9 3406 10 US-09-880-107-1628  
c 997 16 0.9 3430 10 US-09-820-893-19  
c 998 16 0.9 3435 10 US-09-917-800A-1480  
999 16 0.9 3471 12 US-10-014-070-6  
c1000 16 0.9 3508 10 US-09-312-762A-1

## ALIGNMENTS

RESULT 1  
US-09-944-413-49  
; Sequence 49, Application US/09944413  
; Patent No. US20020156004A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Geritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kljavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548PICI  
; CURRENT APPLICATION NUMBER: US/09/944,413  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998  
; PRIOR APPLICATION NUMBER: 60/074,086  
; PRIOR FILING DATE: February 9, 1998  
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; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/075,945  
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; PRIOR FILING DATE: July 28, 1999  
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; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: December 1, 1998  
; PRIOR APPLICATION NUMBER: 09/216,021  
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; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020156004A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: No. US20020156004A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December 1, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: December 16, 1999  
; PRIOR APPLICATION NUMBER: PCT/US00/03565  
; PRIOR FILING DATE: February 11, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: February 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: March 2, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/08439  
; PRIOR FILING DATE: March 30, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/14042  
; PRIOR FILING DATE: May 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/20710  
; PRIOR FILING DATE: July 28, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/32678  
; PRIOR FILING DATE: December 1, 2000  
; PRIOR APPLICATION NUMBER: PCT/US01/06520  
; PRIOR FILING DATE: February 28, 2001  
; NUMBER OF SEQ ID NOS: 120  
; SEQ ID NO 49  
; LENGTH: 1876  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-09-944-413-49



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| Best Local Similarity 100.0%; Score 1876; DB 9; Length 1876;  |      |  |      |  |  |  |  |  |  |
| Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0; |      |  |      |  |  |  |  |  |  |
| QY  | 1    | CTCTTTTGTCCACCAAGCCAGCCTGACTCCTGTGAGATTTGTAATAGTTCATCCAGCCTG | 60   |  |  |  |  |  |  |
| DB  | 1    | CTCTTTTGTCCACCAAGCCAGCCTGACTCCTGTGAGATTTGTAATAGTTCATCCAGCCTG | 60   |  |  |  |  |  |  |
| QY  | 61   | AGAAACCAAGCCGGTGGCTGACCCAGGCTGTGCACGGACCACTGACGGGCCCAACAGAC  | 120  |  |  |  |  |  |  |
| DB  | 61   | AGAAACCAAGCCGGTGGCTGACCCAGGCTGTGCACGGACCACTGACGGGCCCAACAGAC  | 120  |  |  |  |  |  |  |
| QY  | 121  | CCATGCTGATCCAGAGACCTCCCTGTGGCGGGGCACTTCCTGGCTGTGCTCTGCGCC    | 180  |  |  |  |  |  |  |
| DB  | 121  | CCATGCTGATCCAGAGACCTCCCTGTGGCGGGGCACTTCCTGGCTGTGCTCTGCGCC    | 180  |  |  |  |  |  |  |
| QY  | 181  | TCCTTGGCAACCACTGGGAGAGGTGTGGCCACCCAGCTGCAAGGACAGGCTCCGATGG   | 240  |  |  |  |  |  |  |
| DB  | 181  | TCCTTGGCAACCACTGGGAGAGGTGTGGCCACCCAGCTGCAAGGACAGGCTCCGATGG   | 240  |  |  |  |  |  |  |
| QY  | 301  | GCTGGTCCAGCCCTCGGGGTGACATGCGAGGCTGAGCTGAGTGCAGAGCTGGCC       | 360  |  |  |  |  |  |  |
| DB  | 301  | GCTGGTCCAGCCCTCGGGGTGACATGCGAGGCTGAGCTGAGTGCAGAGCTGGCC       | 360  |  |  |  |  |  |  |
| QY  | 361  | AACTGGCTCAAGCCAGGCGAGCCTCTGTGGAATCCCAACCCAGGCTGGCAATCCGGCC   | 420  |  |  |  |  |  |  |
| DB  | 361  | AACTGGCTCAAGCCAGGCGAGCCTCTGTGGAATCCCAACCCAGGCTGGCAATCCGGCC   | 420  |  |  |  |  |  |  |
| QY  | 421  | TCGTGGCCACCTGCAAGTGGGTGGAATGCACTGAGCTGCTGCCCGGGCTTGGCTCT     | 480  |  |  |  |  |  |  |
| DB  | 421  | TCGTGGCCACCTGCAAGTGGGTGGAATGCACTGAGCTGCTGCCCGGGCTTGGCTCT     | 480  |  |  |  |  |  |  |
| QY  | 481  | TTGTTGAAGTGTCAAGCTATGTTTTCAGAGGGGAGCGGTACAGCCAGCGCGAGAG      | 540  |  |  |  |  |  |  |
| DB  | 481  | TTGTTGAAGTGTCAAGCTATGTTTTCAGAGGGGAGCGGTACAGCCAGCGCGAGAG      | 540  |  |  |  |  |  |  |
| QY  | 541  | AGTGTGCTCGAAGCCACCTGACCCAGCTACAGCCAGCTGCTGTGGGCGACCTCAAGCC   | 600  |  |  |  |  |  |  |
| DB  | 541  | AGTGTGCTCGAAGCCACCTGACCCAGCTACAGCCAGCTGCTGTGGGCGACCTCAAGCC   | 600  |  |  |  |  |  |  |
| QY  | 601  | AGTGGGCTGTGGCGGCACTGTGCTGTCAGGCGCAGACAGCGATAGAGCCCTTTGTCT    | 660  |  |  |  |  |  |  |
| DB  | 601  | AGTGGGCTGTGGCGGCACTGTGCTGTCAGGCGCAGACAGCGATAGAGCCCTTTGTCT    | 660  |  |  |  |  |  |  |
| QY  | 661  | GTGCTTACTCCCGGAGGCACTGGGAGGTCAAGGGGAAGACAATCATCCCTATAAGA     | 720  |  |  |  |  |  |  |
| DB  | 661  | GTGCTTACTCCCGGAGGCACTGGGAGGTCAAGGGGAAGACAATCATCCCTATAAGA     | 720  |  |  |  |  |  |  |
| QY  | 721  | AGGGTCCCTGGTGTGCTGTGACAGCCAGTGTCTCAGGCTGCTTCAAAGCCTGGAGCC    | 780  |  |  |  |  |  |  |
| DB  | 721  | AGGGTCCCTGGTGTGCTGTGACAGCCAGTGTCTCAGGCTGCTTCAAAGCCTGGAGCC    | 780  |  |  |  |  |  |  |
| QY  | 781  | ATGCAGGGGGCTCTGTGAGGTCCCAAGGAATCCTTGTGTCATGAGCTGCAGAACCATG   | 840  |  |  |  |  |  |  |
| DB  | 781  | ATGCAGGGGGCTCTGTGAGGTCCCAAGGAATCCTTGTGTCATGAGCTGCAGAACCATG   | 840  |  |  |  |  |  |  |
| QY  | 841  | GACGTCTCAACATFACACCTGCACTGCGACCTGTCCCTTGGCTACACGGGCGAGATACT  | 900  |  |  |  |  |  |  |
| DB  | 841  | GACGTCTCAACATFACACCTGCACTGCGACCTGTCCCTTGGCTACACGGGCGAGATACT  | 900  |  |  |  |  |  |  |
| QY  | 901  | GCCAACTGAGGTGACGCTGCACTGTGTCACGGCCGGTTCGGGGAGGAGTGCCTGT      | 960  |  |  |  |  |  |  |
| DB  | 901  | GCCAACTGAGGTGACGCTGCACTGTGTCACGGCCGGTTCGGGGAGGAGTGCCTGT      | 960  |  |  |  |  |  |  |
| QY  | 961  | GCCTCTGTGACATCGGCTACGGGGGAGCCAGTGTGCAACCAAGTGCATTTTCCCTTCC   | 1020 |  |  |  |  |  |  |
| DB  | 961  | GCCTCTGTGACATCGGCTACGGGGGAGCCAGTGTGCAACCAAGTGCATTTTCCCTTCC   | 1020 |  |  |  |  |  |  |
| QY  | 1021 | ACACCTGTGACCTGAGGATGACAGGAGTGTCTTATGCTGTCTTTCAGAGGCGAGACCT   | 1080 |  |  |  |  |  |  |

## RESULT 2

us-09-944-403-49

; Sequence 49, Application US/09944403

; Patent No. US20020165143A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin

; APPLICANT: Botstein, David

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gerritsen, Mary

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul

APPLICANT: Grimaldi, Christopher  
APPLICANT: Gurney, Austin  
APPLICANT: Hillan, Kenneth  
APPLICANT: Kljavin, Ivar  
APPLICANT: Napier, Mary  
APPLICANT: Roy, Margaret  
APPLICANT: Tumas, Daniel  
APPLICANT: Wood, William  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P2548P1C1  
CURRENT APPLICATION NUMBER: US/09/944,403  
PRIORITY FILING DATE: 2001-09-26  
PRIORITY APPLICATION NUMBER: 09/866,028  
PRIORITY FILING DATE: 2001-05-25  
PRIORITY APPLICATION NUMBER: 60/067,411  
PRIORITY FILING DATE: December 3, 1997  
PRIORITY APPLICATION NUMBER: 60/069,334  
PRIORITY FILING DATE: December 11, 1997  
PRIORITY APPLICATION NUMBER: 60/069,335  
PRIORITY FILING DATE: December 11, 1997  
PRIORITY APPLICATION NUMBER: 60/069,278  
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PRIORITY FILING DATE: December 16, 1997  
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PRIORITY APPLICATION NUMBER: 60/074,086  
PRIORITY FILING DATE: February 9, 1998  
PRIORITY APPLICATION NUMBER: 60/074,092  
PRIORITY FILING DATE: February 9, 1998  
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PRIORITY APPLICATION NUMBER: 60/113,296  
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PRIORITY APPLICATION NUMBER: PCT/US98/19330  
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PRIORITY APPLICATION NUMBER: 09/254,311  
PRIORITY FILING DATE: March 3, 1999  
PRIORITY APPLICATION NUMBER: PCT/US99/12252  
PRIORITY FILING DATE: June 22, 1999  
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PRIORITY FILING DATE: September 15, 1999  
PRIORITY APPLICATION NUMBER: PCT/US98/28409  
PRIORITY FILING DATE: No. US20020165143A1ember 30, 1999  
PRIORITY APPLICATION NUMBER: PCT/US99/28313  
PRIORITY FILING DATE: No. US20020165143A1ember 30, 1999  
PRIORITY APPLICATION NUMBER: PCT/US99/28301  
PRIORITY FILING DATE: December 1, 1999  
PRIORITY APPLICATION NUMBER: PCT/US99/30095  
PRIORITY FILING DATE: December 16, 1999

PRIOR APPLICATION NUMBER: PCT/US00/03565  
PRIORITY FILING DATE: February 11, 2000  
PRIORITY APPLICATION NUMBER: PCT/US00/04414  
PRIORITY FILING DATE: February 22, 2000  
PRIORITY APPLICATION NUMBER: PCT/US00/05841  
PRIORITY FILING DATE: March 2, 2000  
PRIORITY APPLICATION NUMBER: PCT/US00/08439  
PRIORITY FILING DATE: March 30, 2000  
PRIORITY APPLICATION NUMBER: PCT/US00/14042  
PRIORITY FILING DATE: May 22, 2000  
PRIORITY APPLICATION NUMBER: PCT/US00/20710  
PRIORITY FILING DATE: July 28, 2000  
PRIORITY APPLICATION NUMBER: PCT/US00/32678  
PRIORITY FILING DATE: December 1, 2000  
PRIORITY APPLICATION NUMBER: PCT/US01/06520  
PRIORITY FILING DATE: February 28, 2001  
NUMBER OF SEQ ID NOS: 120  
SEQ ID NO 49  
LENGTH: 1876  
TYPE: DNA  
ORGANISM: Homo Sapien  
US-09-944-403-49

Query Match 100.0%; Score 1876; DB 9; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCCTTTTGTCCACACAGCCAGCCCTGACTCCTGGAGATTGTGAATAGCTCCATCCAGCCTG 60  
DB 1 CTCCTTTTGTCCACACAGCCAGCCCTGACTCCTGGAGATTGTGAATAGCTCCATCCAGCCTG 60

QY 61 AGAACAAAGCCGGGTGGCTGAGCCAGGCTGTSCAGGAGACCTGACGGGGCCCAACAGAC 120  
DB 61 AGAACAAAGCCGGGTGGCTGAGCCAGGCTGTSCAGGAGACCTGACGGGGCCCAACAGAC 120

QY 121 CATGCTGCATCCAGAGACCTCCCTGGCCGGGGGATCTCTTGGCTGTGCTCTCTGGGCC 180  
DB 121 CATGCTGCATCCAGAGACCTCCCTGGCCGGGGGATCTCTTGGCTGTGCTCTCTGGGCC 180

QY 181 TCCTTGGCACCACTGGGCAGAGGTGTGGCCACCCAGCTGCAGGAGAGGCTCCGATGG 240  
DB 181 TCCTTGGCACCACTGGGCAGAGGTGTGGCCACCCAGCTGCAGGAGAGGCTCCGATGG 240

QY 241 CGGAGCCCTGAACAGGAAGAGAGTTTCTTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300  
DB 241 CGGAGCCCTGAACAGGAAGAGAGTTTCTTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300

QY 301 GCTGGGTCCAGCCCTGCGGCTGACATGCGGAGGCTGGAGTGGAGTGCACGCTTGGGCC 360  
DB 301 GCTGGGTCCAGCCCTGCGGCTGACATGCGGAGGCTGGAGTGGAGTGCACGCTTGGGCC 360

QY 361 AACTGCTCAAGCCAGGCGACCCCTCTGTGGAATCCCAACCCAGCCTGGCATCCGGCC 420  
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QY 421 TGTGGCGCACCCCTGCAAGTGGGCTGGAACATGCAGCTGCTGCCCGCGGCTTGGCGCTCT 480  
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QY 481 TTGTTGAAGTGTGAGCCTATGTTTCAGAGGGGACCGGTACAGCCACGCGGAGAG 540  
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QY 541 AGTGTGCTCGCAACGCCACCTGCACCCACTACAGCAGCTCGTGTGGGCGACCTCAAGCC 600  
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;; PRIOR FILING DATE: September 16, 1998  
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;; PRIOR APPLICATION NUMBER: 09/218,517  
;; PRIOR FILING DATE: December 22, 1998  
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;; PRIOR FILING DATE: March 3, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/12252  
;; PRIOR FILING DATE: June 22, 1999  
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;; PRIOR FILING DATE: September 15, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28409  
;; PRIOR FILING DATE: No. US20020168715A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28313  
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;; PRIOR FILING DATE: March 2, 2000  
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;; PRIOR FILING DATE: May 22, 2000  
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;; PRIOR FILING DATE: December 1, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/06520  
;; PRIOR FILING DATE: February 28, 2001  
;; NUMBER OF SEQ ID NOS: 120  
;; SEQ ID NO 49  
;; LENGTH: 1876  
;; TYPE: DNA  
;; ORGANISM: Homo Sapien  
US-09-944-896-49

Query Match 100.08; Score 1876; DB 9; Length 1876;  
Best Local Similarity 100.08; Pred. No. 0;  
Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 CTCCTTTTCCACCAAGCCAGCCCTGACTCTCTGGAGATTGTAATAGCTCCATCCAGCCCTG 60  
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Qy 61 AGAACAAAGCCGGGTGGCTGAGCCAGGCTGTGCAGGAGACCTGACGGGCCCAACAGAC 120  
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Db 301 GCTGGGTCCAGCCCTCGGCTGACATGCGGAGGCTGGAGTGGAGTGGAGTGGAGTGGAGT 360  
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Db 421 TGTGGCGCACCTGCAAGTGGGTGGAACATGCAAGTGTGCTGCGCGGGGCTTGGCGTCT 480  
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Qy 841 GACGTCTCAACATCAGCACCTGCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900  
Db 841 GACGTCTCAACATCAGCACCTGCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900  
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Db 901 GCCAAGTGAGGTGAGCCTGCAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960  
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Qy 1021 ACACCTGTGACATCGGCTACCGGGGAGCCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080  
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Qy 1081 ATTACAGAGCCAGATGAAATGTCAGAGGAAGGGGGGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140  
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Qy 1141 AGAAAGTGACAGGACATCCTCGCCTTCTATCTGCGCCCTGCTGCTGCTGCTGCTGCTGCTGCT 1200  
Db 1141 AGAAAGTGACAGGACATCCTCGCCTTCTATCTGCGCCCTGCTGCTGCTGCTGCTGCTGCTGCT 1200  
Qy 1201 CTGACAGTGTGAGAGCAGGAGAACTTCTGATCGGGCTCACCTTACAGAGCCGCAAGG 1260  
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Qy 1321 CTGACAAACCCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1380  
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Qy 1381 TGCAGAGTTCAGTGTGCTTCAACTGGAGAACAGCAGCAGTGCAGAACCCGAAACCGTTACA 1440  
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Qy 1441 TCTGCCAGTTTGGCCAGGAGCAGATCTCCCGGTGGGGCCCGAGGCTCTGAGGCTGACCA 1500  
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Db 1 CTCCTTTGTCCACAGGCCAGCCCTGACTCTCTGGAGATTGTGAATAGCTCCATCCAGCCCTG 60  
QY 61 AGAAACAAAGCCGGTGGCTGAGCCAGGCTGTGACGGAGCAGCTGACGGGCCCAACAGAC 120  
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QY 121 CCATGCTGCATCCAGAGACCTCCCTTGCCCGGGGGCATCTCTGGCTGTGCTCTGGGCC 180  
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QY 181 TCCTTTGGCACCACCTGGGACAGGCTGTGGCCACCCAGCTGACAGAGAGGCTCCGATGG 240  
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Db 241 CCGAGCCCTGAACAGGAAGAGATTTCTTGTCTCTCTCCCTGCACAAACGCTCGGCA 300  
QY 301 GCTGGGTCCAGCCCTTGGGCTGACATGCGGAGGCTGGAGTGCAGCTGACAGCTGGGCC 360  
Db 301 GCTGGGTCCAGCCCTTGGGCTGACATGCGGAGGCTGGAGTGCAGCTGACAGCTGGGCC 360  
QY 361 AACTGGCTCAAGCCAGGCCAGCCCTCTGTGGAATCCCAACCCGAGCTGGCATCCGGCC 420  
Db 361 AACTGGCTCAAGCCAGGCCAGCCCTCTGTGGAATCCCAACCCGAGCTGGCATCCGGCC 420  
QY 421 TGTGGCCACCTGCAAGTGGGCTGGAACATGCACTGCTGCGCGGGCTTGGCGTCT 480  
Db 421 TGTGGCCACCTGCAAGTGGGCTGGAACATGCACTGCTGCGCGGGCTTGGCGTCT 480  
QY 481 TTGTTGAAGTGGTCAAGCTATGTTTTCAGAGGGGACGCTGCTGGGCCACCTCAAGCC 540  
Db 481 TTGTTGAAGTGGTCAAGCTATGTTTTCAGAGGGGACGCTGCTGGGCCACCTCAAGCC 540  
QY 541 AGTGTGCTCGCAACGCGCACCTGACCCACTACAGCAGCTGCTGCGGCCACCTCAAGCC 600  
Db 541 AGTGTGCTCGCAACGCGCACCTGACCCACTACAGCAGCTGCTGCGGCCACCTCAAGCC 600  
QY 601 AGCTGGCTGTGGGGGCACTGTGCTGTCAGGCCAGACGATGAAGCCCTTGTCT 660  
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QY 661 GTGCTACTCCCGGAGGCACTGGAGGTCAAGGGGAGACATCATCCCTATAGA 720  
Db 661 GTGCTACTCCCGGAGGCACTGGAGGTCAAGGGGAGACATCATCCCTATAGA 720  
QY 721 AGGTGCTGCTGCTGCTGTCACAGCCAGTGTCTCAGGCTGCTTCAAAGCCCTGGACC 780  
Db 721 AGGTGCTGCTGCTGCTGTCACAGCCAGTGTCTCAGGCTGCTTCAAAGCCCTGGACC 780  
QY 781 ATGCAGGGGGCTCTGTGAGGTCCCGAGGATCTTGTGCGCATGAGTGCAGAACATG 840  
Db 781 ATGCAGGGGGCTCTGTGAGGTCCCGAGGATCTTGTGCGCATGAGTGCAGAACATG 840  
QY 841 GAGCTCTCAACATCAGACCTGCGACTGCGACTGCTCCCTGCTACACGGGAGATCT 900  
Db 841 GAGCTCTCAACATCAGACCTGCGACTGCGACTGCTCCCTGCTACACGGGAGATCT 900  
QY 901 GCCAAGTGAAGTGCAGCTGCTGTCAGCGCCGTTCCGGGAGGAGTGTCTGT 960  
Db 901 GCCAAGTGAAGTGCAGCTGCTGTCAGCGCCGTTCCGGGAGGAGTGTCTGT 960  
QY 961 GCGTCTGTGACATCGCTACGGGGAGCCAGTGTGCCACCAAGGTGCATTTTCCCTTC 1020  
Db 961 GCGTCTGTGACATCGCTACGGGGAGCCAGTGTGCCACCAAGGTGCATTTTCCCTTC 1020  
QY 1021 ACACCTGTGACTGAGGATCGAGGAGTGTCTTCAATGCTTTCAGAGGACAGACCT 1080  
Db 1021 ACACCTGTGACTGAGGATCGAGGAGTGTCTTCAATGCTTTCAGAGGACAGACCT 1080  
QY 1081 ATTACAGAGCCAGGATGAATCTCAGAGAAAGGGGGTGTGGCCCGAGATCAAGGCC 1140  
Db 1081 ATTACAGAGCCAGGATGAATCTCAGAGAAAGGGGGTGTGGCCCGAGATCAAGGCC 1140

QY 1141 AGAAAGTGCAGGACATCTCGCTTCCTATCTGCGCGCCTGGAGACCAACAGAGGTGA 1200  
Db 1141 AGAAAGTGCAGGACATCTCGCTTCCTATCTGCGCGCCTGGAGACCAACAGAGGTGA 1200  
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Db 1201 CTGACAGTGAATCTGAGACCAAGAACTTCTGGATCGGGCTCACCTACAGACCCGCAAG 1260  
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QY 1681 AGAAGAGTGGGGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1740  
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QY 1741 GAAGAGAGGACACCGCCAGTGGTCCAAAAGGCTCCTCTTCCACCTGGCCAGACCC 1800  
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QY 1861 CTGAAAAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1876  
Db 1861 CTGAAAAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1876

## RESULT 5

US-09-866-028-49  
; Sequence 49, Application us/09866028  
; Patent No. US2002058309A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Bolstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kijavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret

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; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/866,028
; CURRENT FILING DATE: 2001-05-25
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 49
; LENGTH: 1876
; TYPE: DNA
; ORGANISM: Homo Sapien
; US-09-866-028-49

Query Match      100.0%; Score 1876; DB 10; Length 1876;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCTTTTGTCCACAGCCAGCCAGCTGACTCCCTGGAGATTGTGAATAGCTCCATCCAGCCTG 60
Db 1 CTCTTTTGTCCACAGCCAGCCAGCTGACTCCCTGGAGATTGTGAATAGCTCCATCCAGCCTG 60
QY 61 AGAAACAGCCGGGTGGCTGAGCCAGGCTGTGCACGGAGCACCTTGACGGGCCCAACAGAC 120
Db 61 AGAAACAGCCGGGTGGCTGAGCCAGGCTGTGCACGGAGCACCTTGACGGGCCCAACAGAC 120
QY 121 CCATGCTGCATCCAGAGACCTCCCTGGCCGGGGGCACTCTCTGGCTGTGCTTCCCTGGGCC 180
Db 121 CCATGCTGCATCCAGAGACCTCCCTGGCCGGGGGCACTCTCTGGCTGTGCTTCCCTGGGCC 180
QY 181 TCCTTGGCACACCTGGGACAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGG 240
Db 181 TCCTTGGCACACCTGGGACAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGG 240
QY 241 CCGGAGCCCTGAACAGGAAGGAGAGTTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300
Db 241 CCGGAGCCCTGAACAGGAAGGAGAGTTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300
QY 301 GCTGGTCCAGCCCTCGGCTGACATGCGGAGGCTGAGTGGAGTGGAGTGGAGTGGAGTGGAG 360
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QY 361 AACTGGCTCAAGCCAGGCGAGCCCTCTCTGGAATCCCAACCCGAGCCTGGCATCCGGCC 420
Db 361 AACTGGCTCAAGCCAGGCGAGCCCTCTCTGGAATCCCAACCCGAGCCTGGCATCCGGCC 420
QY 421 TGTGGCGCACCCCTGCAAGTGGGCTGGAACATGCAGCTGTGCTCCCGGGGCTTGGGCTCCT 480
Db 421 TGTGGCGCACCCCTGCAAGTGGGCTGGAACATGCAGCTGTGCTCCCGGGGCTTGGGCTCCT 480
QY 481 TTGTTGAAGTGTGAGCTATGTTTTCAGAGGGGCGAGGCTACAGCCACGCGGCGAGGAG 540
Db 481 TTGTTGAAGTGTGAGCTATGTTTTCAGAGGGGCGAGGCTACAGCCACGCGGCGAGGAG 540
QY 541 AGTGTGCTCGCAACGCCACCTGCACCCACTACACGAGCTCGTGTGGGCCACCTCAAGCC 600
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Db 661 GTGCCATCTCCCGGAGGCAACTGGAGGTTCAAGGGGAAGACAATCATCCCCCTATAAGA 720
QY 721 AGGGTGCCTGTGTTGCTCTGCACAGCCAGTGTCTCAGGCTGTCTCAAGCCTGGGACC 780
Db 721 AGGGTGCCTGTGTTGCTCTGCACAGCCAGTGTCTCAGGCTGTCTCAAGCCTGGGACC 780
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Db 901 GCCAAGTGAAGTGCAGCCTGCAGTGTGTGCACGCCCGGTTCGCGGAGGAGGAGTGCCTGT 960
QY 961 GCGTCTGTGACATCGCGTACGGGGGAGCCAGTGTGCACCAAGTGCAATTTTCCCTTCC 1020
Db 961 GCGTCTGTGACATCGCGTACGGGGGAGCCAGTGTGCACCAAGTGCAATTTTCCCTTCC 1020
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Db 1021 ACACCTGTGACCTGAGGATCGACGGAGCTTCTCATGGTGTCTTCAGAGGCAGACACT 1080
QY 1081 ATTACAGAGCCAGGATGAAATGTTCAGAGGAAAGCGGGGTCTGGCCAGATCAAGAGCC 1140
Db 1081 ATTACAGAGCCAGGATGAAATGTTCAGAGGAAAGCGGGGTCTGGCCAGATCAAGAGCC 1140
QY 1141 AGAAAGTGCAGGACATCTCGCTTCTATCTGGGCCGCTGGAGACCACCAACGAGGTGA 1200
Db 1141 AGAAAGTGCAGGACATCTCGCTTCTATCTGGGCCGCTGGAGACCACCAACGAGGTGA 1200
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Db 1381 TGCAAGGCTTCAGCTGCTTCAACTTGAACAGCACCGCTGCAAAAACCCGAAACCTTTACA 1440
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QY 1801 TGTGGGCGAGCGGAGCTTCCCTGTGCGATGAACCCACGGGTATTAAATATTGAATCAG 1860
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QY 1861 CTGAAAAAATAAAAAA 1876
Db 1861 CTGAAAAAATAAAAAA 1876
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RESULT 6  
US-09-944-449-49  
; Sequence 49, Application US/09944449  
; Patent No. US20020102647A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrari, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kljavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548PICI  
; CURRENT APPLICATION NUMBER: US/09/944,449  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998  
; PRIOR APPLICATION NUMBER: 60/074,086  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/074,082  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/075,945  
; PRIOR FILING DATE: February 25, 1998  
; PRIOR APPLICATION NUMBER: 60/112,850  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 60/113,296  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 60/146,222  
; PRIOR FILING DATE: July 28, 1999  
; PRIOR APPLICATION NUMBER: PCT/US98/19330  
; PRIOR FILING DATE: September 16, 1998  
; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: December 1, 1998  
; PRIOR APPLICATION NUMBER: 09/216,021  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 09/218,517

; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020102647A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: No. US20020102647A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December 1, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: December 16, 1999  
; PRIOR APPLICATION NUMBER: PCT/US00/03565  
; PRIOR FILING DATE: February 11, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: February 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: March 2, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/08439  
; PRIOR FILING DATE: March 30, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/14042  
; PRIOR FILING DATE: May 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/20710  
; PRIOR FILING DATE: July 28, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/32678  
; PRIOR FILING DATE: December 1, 2000  
; PRIOR APPLICATION NUMBER: PCT/US01/06520  
; PRIOR FILING DATE: February 28, 2001  
; NUMBER OF SEQ ID NOS: 120  
; SEQ ID NO 49  
; LENGTH: 1876  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
; US-09-944-449-49

Query Match 100.0%; Score 1876; DB 10; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCCTTTTGTCCACGAGCCCTGACTCTGGAGATTGTGAATAGTCCATCCAGCCCTG 60  
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QY 241 CCGAGCCCTGAACAGGAAGAGAGTTCTTGTCTCTCCCTGCACAAACCCCTGGCGCA 300  
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QY 421 TGTGGCGCACCCCTGCAAGTGGGCTGGAACATGCAAGTGTGCTGCTGCTGGGCTTGGGCTCT 480  
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QY 481 TTGTTGAAGTGTGTCAGCCTATGTTTTCAGAGGGGACGGGTACAGCCACCGGGCAGGAG 540  
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QY 661 GTGCTTACTTCCCGGAGGCAACTGGGAGGTCAACGGGAAGCAATCATCTCCCTATAAGA 720  
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QY 721 AGGTGCTGTGTGCTGTGCTGTCACAGCCAGTGTCTCAGGCTGCTTCAAGGCTTGGGACC 780  
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QY 781 ATGACGGGGGCTGTGTCAGTCCCGCAGCAATCTTGTGTCATGAGCTCCAGAACCATG 840  
DB 781 ATGACGGGGGCTGTGTCAGTCCCGCAGCAATCTTGTGTCATGAGCTCCAGAACCATG 840  
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DB 841 GACGTCTCAACATCAGCACCTGCCACTGCTCCCTGCTACACGGGCAGATACT 900  
QY 901 GCCAAGTGTGAGTGTGCTGTCAGTGTGTGACGGCCGCTTCCGGGAGGAGTGTCTCT 960  
DB 901 GCCAAGTGTGAGTGTGCTGTCAGTGTGTGACGGCCGCTTCCGGGAGGAGTGTCTCT 960  
QY 961 GCCTGTGACATCGCTTACGGGGAGCCAGTGTGCTCCACCAAGTGTCTTCCCTTCC 1020  
DB 961 GCCTGTGACATCGCTTACGGGGAGCCAGTGTGCTCCACCAAGTGTCTTCCCTTCC 1020  
QY 1021 ACACCTGTGACCTGAGGATCAGCGAGACTGCTTTCATGCTGTCTCAGAGGCAGACCT 1080  
DB 1021 ACACCTGTGACCTGAGGATCAGCGAGACTGCTTTCATGCTGTCTCAGAGGCAGACCT 1080  
QY 1081 ATTACAGCCAGATGAATGTGACAGAAAGGGGGGTGTGCCCCAGATCAAGAGCC 1140  
DB 1081 ATTACAGCCAGATGAATGTGACAGAAAGGGGGGTGTGCCCCAGATCAAGAGCC 1140  
QY 1141 AGAAGTGCAGGACATCTCGCTTCTATCTGGGCGGCTTGAGACCCACGAGGTGA 1200  
DB 1141 AGAAGTGCAGGACATCTCGCTTCTATCTGGGCGGCTTGAGACCCACGAGGTGA 1200  
QY 1201 CTGACAGTGTGCTGAGACCCAGGAACTTCTGATCGGCTCACCTACAGACCGCCAAGG 1260  
DB 1201 CTGACAGTGTGCTGAGACCCAGGAACTTCTGATCGGCTCACCTACAGACCGCCAAGG 1260  
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QY 1501 CATGGCTCCCTCGCTGCGCTGGGAGCACCGGCTCTGCTTACCTGTCTGCCACCTGTCT 1560  
DB 1501 CATGGCTCCCTCGCTGCGCTGGGAGCACCGGCTCTGCTTACCTGTCTGCCACCTGTCT 1560

## RESULT 7

US-09-944-457-49

; Sequence 49, Application US/09944457

; Patent No. US20020110859A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin

; APPLICANT: Botstein, David

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gerritsen, Mary

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul

; APPLICANT: Grimaldi, Christopher

; APPLICANT: Gurney, Austin

; APPLICANT: Hillan, Kenneth

; APPLICANT: Kljavin, Ivar

; APPLICANT: Napier, Mary

; APPLICANT: Roy, Margaret

; APPLICANT: Tamas, Daniel

; APPLICANT: Wood, William

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE REFERENCE: P2548P1C1

; CURRENT APPLICATION NUMBER: US/09/944,457

; PRIOR FILING DATE: 2001-09-26

; PRIOR APPLICATION NUMBER: 09/866,028

; PRIOR FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: 60/067,411

; PRIOR FILING DATE: December 3, 1997

; PRIOR APPLICATION NUMBER: 60/069,334

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,335

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,278

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,425

; PRIOR FILING DATE: December 12, 1997

; PRIOR APPLICATION NUMBER: 60/069,896

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,694

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,702

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,870

; PRIOR FILING DATE: December 17, 1997

; PRIOR APPLICATION NUMBER: 60/069,873

; PRIOR FILING DATE: December 17, 1997

QY 1561 GGAACAAGGCGCAGGTTAAGACCACATCGCTCATGTCTCAAAAGAGGTCTCAGACCTTGCAC 1620  
DB 1561 GGAACAAGGCGCAGGTTAAGACCACATCGCTCATGTCTCAAAAGAGGTCTCAGACCTTGCAC 1620  
QY 1621 AATGCCAGAAGTTGGGCAGAGAGAGGAGGCGCAGTGTGAGGGCCAGGAGTGTGTT 1680  
DB 1621 AATGCCAGAAGTTGGGCAGAGAGAGGAGGCGCAGTGTGAGGGCCAGGAGTGTGTT 1680  
QY 1681 AGAAGAAGCTGGGGCCCTTCGCCCTGCTTTTGTATGGGAAGATGGGCTTCAATTAGATGC 1740  
DB 1681 AGAAGAAGCTGGGGCCCTTCGCCCTGCTTTTGTATGGGAAGATGGGCTTCAATTAGATGC 1740  
QY 1741 GAAGGAGAGGACACCGCCAGTGGTCCAAAAGGCTCTCTTCCACCTGGCCCCAGACCC 1800  
DB 1741 GAAGGAGAGGACACCGCCAGTGGTCCAAAAGGCTCTCTTCCACCTGGCCCCAGACCC 1800  
QY 1801 TGTGGGCAGCGGAGCTTCCCTGTGGCATGAACCCACGGGCTATTAATATGAATCAG 1860  
DB 1801 TGTGGGCAGCGGAGCTTCCCTGTGGCATGAACCCACGGGCTATTAATATGAATCAG 1860  
QY 1861 CTGAAAAAATAAAAAA 1876  
DB 1861 CTGAAAAAATAAAAAA 1876



Db 1201 CTGACAGTGAATTCGAGACACGAGAACTCTGTATCGGCTCACCTACAGACCGCAAGG 1260  
QY 1261 ACTCCTTCCGCTGGCCACAGGAGACACGAGCTTACACAGTTTGCCTTTGGGCAGC 1320  
Db 1261 ACTCCTTCCGCTGGCCACAGGAGACACGAGCTTACACAGTTTGCCTTTGGGCAGC 1320  
QY 1321 CTGACAAACACGGGCTGGTGGCTGAGTGTGCTATCGGCTTGGCAACCTGGGAGC 1380  
Db 1321 CTGACAAACACGGGCTGGTGGCTGAGTGTGCTATCGGCTTGGCAACCTGGGAGC 1380  
QY 1381 TGCAGGCTTCAGCTGCCTTCACTGGAACGACGAGCTGCAAAACCGCAACCTTTACA 1440  
Db 1381 TGCAGGCTTCAGCTGCCTTCACTGGAACGACGAGCTGCAAAACCGCAACCTTTACA 1440  
QY 1441 TCTGCCAGTTTGGCCAGGAGACATCTCCGGTGGGCGCCAGGCTCTGAGGCGCTGACCA 1500  
Db 1441 TCTGCCAGTTTGGCCAGGAGACATCTCCGGTGGGCGCCAGGCTCTGAGGCGCTGACCA 1500  
QY 1501 CATGGCTCCCTCGCCTGGGAGACACCGGCTCTGTTACCTGTCTGCCACCTGTCT 1560  
Db 1501 CATGGCTCCCTCGCCTGGGAGACACCGGCTCTGTTACCTGTCTGCCACCTGTCT 1560  
QY 1561 GGAACAGGCGCCAGGTTAAGACACATGCTCATGTCCAAAGAGGTCTCAGACCTTGAC 1620  
Db 1561 GGAACAGGCGCCAGGTTAAGACACATGCTCATGTCCAAAGAGGTCTCAGACCTTGAC 1620  
QY 1621 AATGCCAGAGTTGGGCAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1680  
Db 1621 AATGCCAGAGTTGGGCAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1680  
QY 1681 AGAAGAGCTGGGGCCCTTCGCTGCTTTTGAATGGGAAGATGGCTTCAATTAGATGGC 1740  
Db 1681 AGAAGAGCTGGGGCCCTTCGCTGCTTTTGAATGGGAAGATGGCTTCAATTAGATGGC 1740  
QY 1741 GAAGGAGAGACACCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1800  
Db 1741 GAAGGAGAGACACCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1800  
QY 1801 TGTGGGCGAGGAGCTTCCCTGTGGCATGAACCCCGGGGTATTAATTATGAATCAG 1860  
Db 1801 TGTGGGCGAGGAGCTTCCCTGTGGCATGAACCCCGGGGTATTAATTATGAATCAG 1860  
QY 1861 CTGAAAAA 1876  
Db 1861 CTGAAAAA 1876

## RESULT 8

US-09-945-587-49  
; Sequence 49, Application US/09945587  
; Patent No. US20020127643A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kijavini, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; TITLE OF INVENTION: ACIDS ENCODING THE SAME  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/945, 587

; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998  
; PRIOR APPLICATION NUMBER: 60/074,086  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/074,092  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/075,945  
; PRIOR FILING DATE: February 25, 1998  
; PRIOR APPLICATION NUMBER: 60/112,850  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 60/113,296  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 60/146,222  
; PRIOR FILING DATE: July 28, 1999  
; PRIOR APPLICATION NUMBER: PCT/US98/19330  
; PRIOR FILING DATE: September 16, 1998  
; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: December 1, 1998  
; PRIOR APPLICATION NUMBER: 09/216,021  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 09/218,517  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December 1, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: December 16, 1999  
; PRIOR APPLICATION NUMBER: PCT/US00/03565  
; PRIOR FILING DATE: February 11, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: February 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: March 2, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/08439  
; PRIOR FILING DATE: March 30, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/14042  
; PRIOR FILING DATE: May 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/20710  
; PRIOR FILING DATE: July 28, 2000

; PRIOR APPLICATION NUMBER: PCT/US00/32678  
; PRIOR FILING DATE: December 1, 2000  
; PRIOR APPLICATION NUMBER: PCT/US01/06520  
; PRIOR FILING DATE: February 28, 2001  
; NUMBER OF SEQ ID NOS: 120  
; SEQ ID NO 49  
; LENGTH: 1876  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
us-09-587-49

Query Match 100.0%; Score 1876; DB 10; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCCTTTGTCACACAGCCAGCCGCTGACTCTCTGGAGATTGTGAATAGTCCATCCAGCGTG 60  
DB 1 CTCCTTTGTCACACAGCCAGCCGCTGACTCTCTGGAGATTGTGAATAGTCCATCCAGCGTG 60  
QY 61 AGAAACAAGCCGGGTGGCTGAGCAGGCTGTGCACGAGACACCTGACGGGCCCAACAGAC 120  
DB 61 AGAAACAAGCCGGGTGGCTGAGCAGGCTGTGCACGAGACACCTGACGGGCCCAACAGAC 120  
QY 121 CCATGCTGCATCCAGAGACCTTCCCTGGCGGGGGGATCTCTCTGGCTGTGCTCTGGCCC 180  
DB 121 CCATGCTGCATCCAGAGACCTTCCCTGGCGGGGGGATCTCTCTGGCTGTGCTCTGGCCC 180  
QY 181 TCCTTGGCACCACTGGGGCAGAGGTGTGGCCACCCAGCTGCAGAGCAGGCTCCGATGG 240  
DB 181 TCCTTGGCACCACTGGGGCAGAGGTGTGGCCACCCAGCTGCAGAGCAGGCTCCGATGG 240  
QY 241 CCGGAGCCCTGAACAGGAGGAGTTCTTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300  
DB 241 CCGGAGCCCTGAACAGGAGGAGTTCTTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300  
QY 301 GGTGGTCCAGCCCTGGGGTGCATGCGGAGGCTGGAGTGCAGGCTGGAGCTGGCC 360  
DB 301 GGTGGTCCAGCCCTGGGGTGCATGCGGAGGCTGGAGTGCAGGCTGGAGCTGGCC 360  
QY 361 AACTGGCTCAAGCCAGGCGACCTCTGTGGAATCCCAACCCAGGCTGACAGCTCCGCCC 420  
DB 361 AACTGGCTCAAGCCAGGCGACCTCTGTGGAATCCCAACCCAGGCTGACAGCTCCGCCC 420  
QY 421 TGTGGCGACCTGCAAGTGGGTGGAACATGACGTGCTGCGCGGGCTTGGCTGCT 480  
DB 421 TGTGGCGACCTGCAAGTGGGTGGAACATGACGTGCTGCGCGGGCTTGGCTGCT 480  
QY 481 TTGTTGAAGTGTGACCTATGTTTGCAGAGGGGACGGGTACAGCCACCGCGCAGGAG 540  
DB 481 TTGTTGAAGTGTGACCTATGTTTGCAGAGGGGACGGGTACAGCCACCGCGCAGGAG 540  
QY 541 AGTGTGCTCGCAACGCCACTGCACCCACTACAGCAGCTGCTGTGGGCCACCTCAAGCC 600  
DB 541 AGTGTGCTCGCAACGCCACTGCACCCACTACAGCAGCTGCTGTGGGCCACCTCAAGCC 600  
QY 601 AGCTGGGCTGTGGGGGACCTGTGCTCTGACGGCCAGACGCGATAGAAGCCCTTTGCT 660  
DB 601 AGCTGGGCTGTGGGGGACCTGTGCTCTGACGGCCAGACGCGATAGAAGCCCTTTGCT 660  
QY 661 GTGGCTACTCCCGGAGGCAACTGGGAGTCAACGGGAGAGCAATCATCCCTTATAAGA 720  
DB 661 GTGGCTACTCCCGGAGGCAACTGGGAGTCAACGGGAGAGCAATCATCCCTTATAAGA 720  
QY 721 AGGGTGCCTGGTGTTCGCTCTGCACAGCCAGTGTCTCAGGCTGCTTCAAGCCCTGGGACC 780  
DB 721 AGGGTGCCTGGTGTTCGCTCTGCACAGCCAGTGTCTCAGGCTGCTTCAAGCCCTGGGACC 780  
QY 781 ATGCAAGGGGGCTCTGTGAGTCCCGAGGAATCCTTGTGCATGAGCTGCAGAACCATG 840  
DB 781 ATGCAAGGGGGCTCTGTGAGTCCCGAGGAATCCTTGTGCATGAGCTGCAGAACCATG 840  
QY 841 GAGGTCTCAACATCAGCAGCTGCCACTGTCCCTCTGGCTTACACGGGCGAGACT 900  
|||||

RESULT 9  
US-09-945-015-49

DB 841 GAGGTCTCAACATCAGCAGCCTGCCACTGCCACTGTCCCTTGGCTACAGGGCGAGATCT 900  
QY 901 GCCAAGTGAAGTGCAGCCTCAGTGTGTGCACGCCGGTTCGGGAGGAGGAGTGTCTGT 960  
DB 901 GCCAAGTGAAGTGCAGCCTCAGTGTGTGCACGCCGGTTCGGGAGGAGGAGTGTCTGT 960  
QY 961 GCGTCTGTGACATCGGCTACGGGGAGGCCAGTGTGCCACCAAGTGTGATTTTCCCTTCC 1020  
DB 961 GCGTCTGTGACATCGGCTACGGGGAGGCCAGTGTGCCACCAAGTGTGATTTTCCCTTCC 1020  
QY 1021 ACACCTGTGACCTGAGGATCGACGAGACTGCTTCTCATGGTGTCTTTCAGAGGCGAGACCT 1080  
DB 1021 ACACCTGTGACCTGAGGATCGACGAGACTGCTTCTCATGGTGTCTTTCAGAGGCGAGACCT 1080  
QY 1081 ATTACAGAGCCAGGATGAAATGTTCAGAGGAAAGGCGGGTGTGCCCCCAGATCAAGAGCC 1140  
DB 1081 ATTACAGAGCCAGGATGAAATGTTCAGAGGAAAGGCGGGTGTGCCCCCAGATCAAGAGCC 1140  
QY 1141 AGAAGTGCAGGACATCCTCGCCTTCTATCTGGGCGGCTGGAGACCAACAGGAGTGA 1200  
DB 1141 AGAAGTGCAGGACATCCTCGCCTTCTATCTGGGCGGCTGGAGACCAACAGGAGTGA 1200  
QY 1201 CTGACAGTGAATTCGAGACGAGGAACTTCTGATCGGCTCACCTACAGAGCGCCAAAG 1260  
DB 1201 CTGACAGTGAATTCGAGACGAGGAACTTCTGATCGGCTCACCTACAGAGCGCCAAAG 1260  
QY 1261 ACTCTCTCCCTGGGCCACAGGAGCAGGAGGCTTCCACAGTGTGCTTGGCTTGGCGAGC 1320  
DB 1261 ACTCTCTCCCTGGGCCACAGGAGCAGGAGGCTTCCACAGTGTGCTTGGCTTGGCGAGC 1320  
QY 1321 CTGACAAACAGGCTGTGTGGCTGAGTGTGCCATGGGTTTGGCAACTGCGTGGAGC 1380  
DB 1321 CTGACAAACAGGCTGTGTGGCTGAGTGTGCCATGGGTTTGGCAACTGCGTGGAGC 1380  
QY 1381 TGCAAGCTTCAGCTGCTTCAACTGGACGACGACGCTGCAAAACCCGAAACCGTTTACA 1440  
DB 1381 TGCAAGCTTCAGCTGCTTCAACTGGACGACGACGCTGCAAAACCCGAAACCGTTTACA 1440  
QY 1441 TCTGCCAGTTTGGCCAGGAGCAGATCTCCCGTGGGGGCCAGGGTCTCAGGCGCTGACCA 1500  
DB 1441 TCTGCCAGTTTGGCCAGGAGCAGATCTCCCGTGGGGGCCAGGGTCTCAGGCGCTGACCA 1500  
QY 1501 CATGGCTCCCTCGCTGCGCTGGGAGACCGGCTGTCTTACCTGTCTGCCACCTGTCT 1560  
DB 1501 CATGGCTCCCTCGCTGCGCTGGGAGCAGCGGCTGTCTTACCTGTCTGCCACCTGTCT 1560  
QY 1561 GGAACAGGCGCCAGGTTAAGACACACATCCCTCATGTCCAAAGAGGTCTCAGACCTTGCAC 1620  
DB 1561 GGAACAGGCGCCAGGTTAAGACACACATCCCTCATGTCCAAAGAGGTCTCAGACCTTGCAC 1620  
QY 1621 AATGCCAAGAAGTTGGGCAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGT 1680  
DB 1621 AATGCCAAGAAGTTGGGCAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGT 1680  
QY 1681 AGAAGAGCTGGGGCCCTTCCCTGTCTTTGATTTGGGAAGATGGGCTTCAATTAGATGGC 1740  
DB 1681 AGAAGAGCTGGGGCCCTTCCCTGTCTTTGATTTGGGAAGATGGGCTTCAATTAGATGGC 1740  
QY 1741 GAAGGAGAGGACACCGCCAGTGTCCAAAGAGGCTGTCTTCCACCTTGGCCAGACCC 1800  
DB 1741 GAAGGAGAGGACACCGCCAGTGTCCAAAGAGGCTGTCTTCCACCTTGGCCAGACCC 1800  
QY 1801 TGTGGGCGAGCGAGCTTCCCTGTGGCATGAACCCCGAGGGGTATTAAATATGAATCAG 1860  
DB 1801 TGTGGGCGAGCGAGCTTCCCTGTGGCATGAACCCCGAGGGGTATTAAATATGAATCAG 1860  
QY 1861 CTGAAAAAATAAAAA 1876  
DB 1861 CTGAAAAAATAAAAA 1876

Sequence 49, Application US/09945015  
 Patent No. US20020132768A1  
 GENERAL INFORMATION:  
 APPLICANT: Baker, Kevin  
 APPLICANT: Botstein, David  
 APPLICANT: Eaton, Dan  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Filvaroff, Ellen  
 APPLICANT: Gerritsen, Mary  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul  
 APPLICANT: Grimaldi, Christopher  
 APPLICANT: Gurney, Austin  
 APPLICANT: Hillan, Kenneth  
 APPLICANT: Kljavin, Ivar  
 APPLICANT: Napier, Mary  
 APPLICANT: Roy, Margaret  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Wood, William  
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 TITLE OF INVENTION: ACIDS ENCODING THE SAME  
 FILE REFERENCE: P2548P1C1  
 CURRENT APPLICATION NUMBER: US/09/945.015  
 CURRENT FILING DATE: 2001-09-26  
 PRIOR APPLICATION NUMBER: 09/866,028  
 PRIOR FILING DATE: 2001-05-25  
 PRIOR APPLICATION NUMBER: 60/067,411  
 PRIOR FILING DATE: December 3, 1997  
 PRIOR APPLICATION NUMBER: 60/069,334  
 PRIOR FILING DATE: December 11, 1997  
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 PRIOR FILING DATE: December 11, 1997  
 PRIOR APPLICATION NUMBER: 60/069,278  
 PRIOR FILING DATE: December 11, 1997  
 PRIOR APPLICATION NUMBER: 60/069,425  
 PRIOR FILING DATE: December 12, 1997  
 PRIOR APPLICATION NUMBER: 60/069,696  
 PRIOR FILING DATE: December 16, 1997  
 PRIOR APPLICATION NUMBER: 60/069,694  
 PRIOR FILING DATE: December 16, 1997  
 PRIOR APPLICATION NUMBER: 60/069,702  
 PRIOR FILING DATE: December 16, 1997  
 PRIOR APPLICATION NUMBER: 60/069,870  
 PRIOR FILING DATE: December 17, 1997  
 PRIOR APPLICATION NUMBER: 60/069,873  
 PRIOR FILING DATE: December 17, 1997  
 PRIOR APPLICATION NUMBER: 60/068,017  
 PRIOR FILING DATE: December 18, 1997  
 PRIOR APPLICATION NUMBER: 60/070,440  
 PRIOR FILING DATE: January 5, 1998  
 PRIOR APPLICATION NUMBER: 60/074,086  
 PRIOR FILING DATE: February 9, 1998  
 PRIOR APPLICATION NUMBER: 60/074,092  
 PRIOR FILING DATE: February 9, 1998  
 PRIOR APPLICATION NUMBER: 60/075,945  
 PRIOR FILING DATE: February 25, 1998  
 PRIOR APPLICATION NUMBER: 60/112,850  
 PRIOR FILING DATE: December 16, 1998  
 PRIOR APPLICATION NUMBER: 60/113,296  
 PRIOR FILING DATE: December 22, 1998  
 PRIOR APPLICATION NUMBER: 60/146,222  
 PRIOR FILING DATE: July 28, 1999  
 PRIOR APPLICATION NUMBER: PCT/US98/19330  
 PRIOR FILING DATE: September 16, 1998  
 PRIOR APPLICATION NUMBER: PCT/US98/25108  
 PRIOR FILING DATE: December 1, 1998  
 PRIOR APPLICATION NUMBER: 09/216,021  
 PRIOR FILING DATE: December 16, 1998  
 PRIOR APPLICATION NUMBER: 09/218,517  
 PRIOR FILING DATE: December 22, 1998  
 PRIOR APPLICATION NUMBER: 09/254,311  
 PRIOR FILING DATE: March 3, 1999  
 PRIOR APPLICATION NUMBER: PCT/US99/12252

PRIOR FILING DATE: June 22, 1999  
 PRIOR APPLICATION NUMBER: PCT/US99/21090  
 PRIOR FILING DATE: September 15, 1999  
 PRIOR APPLICATION NUMBER: PCT/US99/28409  
 PRIOR FILING DATE: No. US20020132768A1ember 30, 1999  
 PRIOR APPLICATION NUMBER: PCT/US99/28313  
 PRIOR FILING DATE: No. US20020132768A1ember 30, 1999  
 PRIOR APPLICATION NUMBER: PCT/US99/28301  
 PRIOR FILING DATE: December 1, 1999  
 PRIOR APPLICATION NUMBER: PCT/US99/30095  
 PRIOR FILING DATE: December 16, 1999  
 PRIOR APPLICATION NUMBER: PCT/US00/03565  
 PRIOR FILING DATE: February 11, 2000  
 PRIOR APPLICATION NUMBER: PCT/US00/04414  
 PRIOR FILING DATE: February 22, 2000  
 PRIOR APPLICATION NUMBER: PCT/US00/05841  
 PRIOR FILING DATE: March 2, 2000  
 PRIOR APPLICATION NUMBER: PCT/US00/08439  
 PRIOR FILING DATE: March 30, 2000  
 PRIOR APPLICATION NUMBER: PCT/US00/14042  
 PRIOR FILING DATE: May 22, 2000  
 PRIOR APPLICATION NUMBER: PCT/US00/20710  
 PRIOR FILING DATE: July 28, 2000  
 PRIOR APPLICATION NUMBER: PCT/US00/32678  
 PRIOR FILING DATE: December 1, 2000  
 PRIOR APPLICATION NUMBER: PCT/US01/06520  
 PRIOR FILING DATE: February 28, 2001  
 NUMBER OF SEQ ID NOS: 120  
 SEQ ID NO 49  
 LENGTH: 1876  
 TYPE: DNA  
 ORGANISM: Homo Sapien  
 US-09-945-015-49

Query Match 100.0%; Score 1876; DB 10; Length 1876;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCCTTTTGTCCACCAGCCAGCCTGACCTCTGGAGATTGTGAATAGCTCCATCCAGCCTG 60  
 DB 1 CTCCTTTTGTCCACCAGCCAGCCTGACCTCTGGAGATTGTGAATAGCTCCATCCAGCCTG 60

QY 61 AGAAACAAGCGGGTGGCTGAGCCAGCGGTGTGACGGAGACCTGACGGGCGGCAACAGAC 120  
 DB 61 AGAAACAAGCGGGTGGCTGAGCCAGCGGTGTGACGGAGACCTGACGGGCGGCAACAGAC 120

QY 121 CCATGCTGCATCCAGAGACCTCCCTGCGGGGGGCACTCTCTGCTGTGCTCTGCTGCTG 180  
 DB 121 CCATGCTGCATCCAGAGACCTCCCTGCGGGGGGCACTCTCTGCTGTGCTCTGCTGCTG 180

QY 181 TCCTTGGCACCACCTGGGSCAGAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGG 240  
 DB 181 TCCTTGGCACCACCTGGGSCAGAGGTGTGGCCACCCAGCTGCAGGAGCAGGCTCCGATGG 240

QY 241 CCGAGGCGCTGAACAGGAGAGAGTTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300  
 DB 241 CCGAGGCGCTGAACAGGAGAGAGTTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300

QY 301 GCTGGGTCCAGCCCTCGGCTGACATGCGGAGGCTGGACTGGAGTGACAGCCTGGCC 360  
 DB 301 GCTGGGTCCAGCCCTCGGCTGACATGCGGAGGCTGGACTGGAGTGACAGCCTGGCC 360

QY 361 AACTGGGTCAAGCCAGGCGAGCCTCTCTGTGGAATCCCAACCCGAGCCTGGCATCCGGCC 420  
 DB 361 AACTGGGTCAAGCCAGGCGAGCCTCTCTGTGGAATCCCAACCCGAGCCTGGCATCCGGCC 420

QY 421 TGTGGCGCACCTGCAAGTGGGCTGGAACATGCACTGCTGCTGCTGCTGCTGCTGCTGCT 480  
 DB 421 TGTGGCGCACCTGCAAGTGGGCTGGAACATGCACTGCTGCTGCTGCTGCTGCTGCTGCT 480

QY 481 TTGTTGAAGTGTGCTAGCCTATGTTTGTGAGAGGGGCGGATACAGCCAGCGGCGAGGAG 540  
 DB 481 TTGTTGAAGTGTGCTAGCCTATGTTTGTGAGAGGGGCGGATACAGCCAGCGGCGAGGAG 540

QY 541 AGTGTGCTCGAACGCGCACCTGACCCACTACAGCAGCTCGTGTGGGCCACCTCAAGCC 600  
Db 541 AGTGTGCTCGAACGCGCACCTGACCCACTACAGCAGCTCGTGTGGGCCACCTCAAGCC 600  
QY 601 AGCTGGCTGTGGGGGCGCACTGTGCTCTCGAGGCCAGACGATAGAGCCCTTTGTCT 660  
Db 601 AGCTGGCTGTGGGGGCGCACTGTGCTCTCGAGGCCAGACGATAGAGCCCTTTGTCT 660  
QY 661 GTGCTACTTCCCGGAGGCACTGGGAGGTCAACGGGAAGACAATCATCCCTATAGA 720  
Db 661 GTGCTACTTCCCGGAGGCACTGGGAGGTCAACGGGAAGACAATCATCCCTATAGA 720  
QY 721 AGGGTGCCTTGGTGTGCTGTGCACAGCCAGTGTCTCAGGCTGTCTCAAAGCCCTGGGACC 780  
Db 721 AGGGTGCCTTGGTGTGCTGTGCACAGCCAGTGTCTCAGGCTGTCTCAAAGCCCTGGGACC 780  
QY 781 ATGCAAGGGGGGCTGTGTAGAGTCCCGAGGAATCTTGTGCGATGAGCTGCCAGAACATG 840  
Db 781 ATGCAAGGGGGGCTGTGTAGAGTCCCGAGGAATCTTGTGCGATGAGCTGCCAGAACATG 840  
QY 841 GACGTCTCAACATCAGCACTGCGCACTGCCACTGTCCCTGCTACACGGGCGAGTACT 900  
Db 841 GACGTCTCAACATCAGCACTGCGCACTGCCACTGTCCCTGCTACACGGGCGAGTACT 900  
QY 901 GCCAAGTAGGTGCAGCCTGCAGTGTGTGCACGCGCGGTTCGGGGAGGAGTGTCTCGT 960  
Db 901 GCCAAGTAGGTGCAGCCTGCAGTGTGTGCACGCGCGGTTCGGGGAGGAGTGTCTCGT 960  
QY 961 GGTCTGTGACATCGCTACGCGGGGAGCCAGTGTGCCACCAAGGTGCATTTCCCTTCC 1020  
Db 961 GGTCTGTGACATCGCTACGCGGGGAGCCAGTGTGCCACCAAGGTGCATTTCCCTTCC 1020  
QY 1021 ACACCTGTGACCTGAGGATCGACGAGACTGCTTCACTGTGTCTTCAGAGGCGACACCT 1080  
Db 1021 ACACCTGTGACCTGAGGATCGACGAGACTGCTTCACTGTGTCTTCAGAGGCGACACCT 1080  
QY 1081 ATTACAGCCAGGATGAATGTACAGAGAAAGCGGGGTGTGCGCCACAGATCAAGAGCC 1140  
Db 1081 ATTACAGCCAGGATGAATGTACAGAGAAAGCGGGGTGTGCGCCACAGATCAAGAGCC 1140  
QY 1141 AGAAAGTCAGGACATCTCGCTTCTATCTGGCGCGCTGGAGAGCACCACAGAGTGA 1200  
Db 1141 AGAAAGTCAGGACATCTCGCTTCTATCTGGCGCGCTGGAGAGCACCACAGAGTGA 1200  
QY 1201 CTGACAGTACTTCAGAGCAGGAACTTCTGATCGGGCTCACTACAAGACCGCCAAAG 1260  
Db 1201 CTGACAGTACTTCAGAGCAGGAACTTCTGATCGGGCTCACTACAAGACCGCCAAAG 1260  
QY 1261 ACTCCTTCGGCTGGGCCACAGGGGAGCAGGCTTCAACAGTTTGGCTTGGGCGAGC 1320  
Db 1261 ACTCCTTCGGCTGGGCCACAGGGGAGCAGGCTTCAACAGTTTGGCTTGGGCGAGC 1320  
QY 1321 CTGACAACACAGGGCTGTGTGGCTGAGTGTGCTGCGATGGGTTTGGCACTCGGTGAGC 1380  
Db 1321 CTGACAACACAGGGCTGTGTGGCTGAGTGTGCTGCGATGGGTTTGGCACTCGGTGAGC 1380  
QY 1381 TGCAGGCTTACGCTTCACTGGAAGCAGCAGGCTGCAAAACCCGAAACCGTTACA 1440  
Db 1381 TGCAGGCTTACGCTTCACTGGAAGCAGCAGGCTGCAAAACCCGAAACCGTTACA 1440  
QY 1441 TCTGCCAGTTTGGCCAGAGACATCTCCCGTGGGGGCCAGGGCTTGGGCTGAGGCTGACCA 1500  
Db 1441 TCTGCCAGTTTGGCCAGAGACATCTCCCGTGGGGGCCAGGGCTTGGGCTGAGGCTGACCA 1500  
QY 1501 CATGGCTCCCTCGCTGGGCGCTGAGGAGCAGGCTGTCTGTCTGCCACCTGTCT 1560  
Db 1501 CATGGCTCCCTCGCTGGGCGCTGAGGAGCAGGCTGTCTGTCTGCCACCTGTCT 1560  
QY 1561 GGACAAGGGCCAGTTTAAGACCATGCTCATGTCCAAAGAGGTCTCAGACCTTGAC 1620  
Db 1561 GGACAAGGGCCAGTTTAAGACCATGCTCATGTCCAAAGAGGTCTCAGACCTTGAC 1620

QY 1621 AATGCCAGAGTTGGCCACAGAGAGCAGGAGGCCAGTGGAGGCCAGGAGTGAGTGT 1680  
Db 1621 AATGCCAGAGTTGGCCACAGAGAGCAGGAGGCCAGTGGAGGCCAGGAGTGAGTGT 1680  
QY 1681 AGAAGAAGCTGGGGCCCTTCGGCTGCTTTTGTGTTGGGAAGATGGCTTCAATTAGATGC 1740  
Db 1681 AGAAGAAGCTGGGGCCCTTCGGCTGCTTTTGTGTTGGGAAGATGGCTTCAATTAGATGC 1740  
QY 1741 GAAGGAGAGACACCGCCAGTGTGCCAATAAGAGCTCTCTCTTCCACCTGGCCAGACCC 1800  
Db 1741 GAAGGAGAGACACCGCCAGTGTGCCAATAAGAGCTCTCTCTTCCACCTGGCCAGACCC 1800  
QY 1801 TGTGGGCGAGCGAGCTTCCCTGTGCGCATGAACCCACCGGGGTATTAATTAATGATCAG 1860  
Db 1801 TGTGGGCGAGCGAGCTTCCCTGTGCGCATGAACCCACCGGGGTATTAATTAATGATCAG 1860  
QY 1861 CTGAAAAAATAAAAAA 1876  
Db 1861 CTGAAAAAATAAAAAA 1876  
RESULT 10  
US-09-944-396-49  
; Sequence 49, Application US/09944396  
; Patent No. US20020132981A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kljavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/944,396  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998

;; PRIOR APPLICATION NUMBER: 60/074,086  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,092  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/075,945  
;; PRIOR FILING DATE: February 25, 1998  
;; PRIOR APPLICATION NUMBER: 60/112,850  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 60/113,296  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 60/146,222  
;; PRIOR FILING DATE: July 28, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US98/19330  
;; PRIOR FILING DATE: September 16, 1998  
;; PRIOR APPLICATION NUMBER: PCT/US98/25108  
;; PRIOR FILING DATE: December 1, 1998  
;; PRIOR APPLICATION NUMBER: 09/216,021  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 09/218,517  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 09/254,311  
;; PRIOR FILING DATE: March 3, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/12252  
;; PRIOR FILING DATE: June 22, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/21090  
;; PRIOR FILING DATE: September 15, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28409  
;; PRIOR FILING DATE: No. US20020132981A, September 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28313  
;; PRIOR FILING DATE: No. US20020132981A, September 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28301  
;; PRIOR FILING DATE: December 1, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: December 16, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US00/03565  
;; PRIOR FILING DATE: February 11, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: February 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/05841  
;; PRIOR FILING DATE: March 2, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/08439  
;; PRIOR FILING DATE: March 30, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/14042  
;; PRIOR FILING DATE: May 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/20710  
;; PRIOR FILING DATE: July 28, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/32678  
;; PRIOR FILING DATE: December 1, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/06520  
;; PRIOR FILING DATE: February 28, 2001  
;; NUMBER OF SEQ ID NOS: 120  
;; SEQ ID NO 49  
;; LENGTH: 1876  
;; TYPE: DNA  
;; ORGANISM: Homo Sapien  
US-09-944-396-49

Query Match 100.0%; Score 1876; DB 10; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTTCTTTGTCACAGCCAGCCGCTGACTCTGGAGATTGTGAATAGCTCCATCCAGCCTG 60  
Db 1 CTTCTTTGTCACAGCCAGCCGCTGACTCTGGAGATTGTGAATAGCTCCATCCAGCCTG 60

QY 61 AGAACAAGCCGGGTGGCTGAGCAGGCTGTGCACGAGCACCTGTGCGGGCCCAACAGAC 120  
Db 61 AGAACAAGCCGGGTGGCTGAGCAGGCTGTGCACGAGCACCTGTGCGGGCCCAACAGAC 120

QY 121 CCATGCTGATCCAGAGACCTCCCTGGCGGGGCATCTCCTGGCTGTGCTCTGCGCC 180  
Db 121 CCATGCTGATCCAGAGACCTCCCTGGCGGGGCATCTCCTGGCTGTGCTCTGCGCC 180

181 TCCTTGGCACCACTGGGCAGAGGTGGCCACCCAGCTGCAGGAGCAGCTCCGATGG 240  
Db TCCTTGGCACCACTGGGCAGAGGTGGCCACCCAGCTGCAGGAGCAGCTCCGATGG 240

QY 241 CCGAGCCCTGAACAGGAAGAGAGTTTCTTGCTCTCTCTCCCTGCACAAACCCCTGCGCA 300  
Db CCGAGCCCTGAACAGGAAGAGAGTTTCTTGCTCTCTCTCCCTGCACAAACCCCTGCGCA 300

QY 301 GCTGGGTCCAGCCCTTGGGCTGCACATGCGGAGGCTGGAGTGGAGTGCAGACCTGGGCC 360  
Db GCTGGGTCCAGCCCTTGGGCTGCACATGCGGAGGCTGGAGTGGAGTGCAGACCTGGGCC 360

QY 361 AACTGGCTCAAGCCAGGCGACCCCTCTGTGGAATCCCAACCCCGAGCCTGGCATCCGGCC 420  
Db AACTGGCTCAAGCCAGGCGACCCCTCTGTGGAATCCCAACCCCGAGCCTGGCATCCGGCC 420

QY 421 TGTGGCCACCCCTGCAAGTGGGCTGGACATGCAGCTGCTGCCCGGGCTTGGCGTCT 480  
Db TGTGGCCACCCCTGCAAGTGGGCTGGACATGCAGCTGCTGCCCGGGCTTGGCGTCT 480

QY 481 TTGTTGAAGTGGTCAAGCTTATGTTTGCAGAGGGGCGGCTACAGCCACGCGGAGGAG 540  
Db TTGTTGAAGTGGTCAAGCTTATGTTTGCAGAGGGGCGGCTACAGCCACGCGGAGGAG 540

QY 541 AGTGTGCTCCGCAACGCCACCTGCACCCACTACACGAGCTCGTGTGGGCCACCTCAAGCC 600  
Db AGTGTGCTCCGCAACGCCACCTGCACCCACTACACGAGCTCGTGTGGGCCACCTCAAGCC 600

QY 601 AGCTGGGCTGTGGCGGCACCTGTGCTCTGCAGGGCCAGACAGCGATAGAGGCTTTGTCT 660  
Db AGCTGGGCTGTGGCGGCACCTGTGCTCTGCAGGGCCAGACAGCGATAGAGGCTTTGTCT 660

QY 661 GTGCCTTACTCCCGGGGCAACTGGGAGTCAACGGGAAGACAAATCATCCCTATAGA 720  
Db GTGCCTTACTCCCGGGGCAACTGGGAGTCAACGGGAAGACAAATCATCCCTATAGA 720

QY 721 AGSGTGCTGTGTTCGCTCTGCACAGCAGTGTCTCAGGCTGTCTTAAAGCCTGGGACC 780  
Db AGSGTGCTGTGTTCGCTCTGCACAGCAGTGTCTCAGGCTGTCTTAAAGCCTGGGACC 780

QY 781 ATGAGGGGGGCTGTGAGGTCCCGAGGAATCCTGTGCGCATGAGCTGCCAGAACATG 840  
Db ATGAGGGGGGCTGTGAGGTCCCGAGGAATCCTGTGCGCATGAGCTGCCAGAACATG 840

QY 841 GACGTCTCAACATCAGCACCTGCCCAGTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900  
Db GACGTCTCAACATCAGCACCTGCCCAGTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900

QY 901 GCCAAGTGAAGTGCAGCCTGCAAGTGTGTGCACGCGCGGTTCCGGGAGGAGGAGTGTCT 960  
Db GCCAAGTGAAGTGCAGCCTGCAAGTGTGTGCACGCGCGGTTCCGGGAGGAGGAGTGTCT 960

QY 961 GCGTCTGTGACATCGGCTACGGGGGAGCCAGTGTGCCACCAAGTGCATTTTCCCTTCC 1020  
Db GCGTCTGTGACATCGGCTACGGGGGAGCCAGTGTGCCACCAAGTGCATTTTCCCTTCC 1020

QY 1021 ACACCTGTCACTGAGGATCGAGGAGTGTCTTATGTGTCTTCTCAGAGGACAGACCT 1080  
Db ACACCTGTCACTGAGGATCGAGGAGTGTCTTATGTGTCTTCTCAGAGGACAGACCT 1080

QY 1081 ATTACAGACCCAGGATGAATGTTCAGAGAAAGCGGGGTGTGCGCCAGATCAAGGCC 1140  
Db ATTACAGACCCAGGATGAATGTTCAGAGAAAGCGGGGTGTGCGCCAGATCAAGGCC 1140

QY 1141 AGAAAGTCAGGACATCTCGCTTCTATCTGCGCGCTGGAGAGACCAACAGAGTGA 1200  
Db AGAAAGTCAGGACATCTCGCTTCTATCTGCGCGCTGGAGAGACCAACAGAGTGA 1200

QY 1201 CTGACAGTGTGACATTCAGAGACCCAGGAACTTCTGAGTCGGGCTCACTACAAGACCCCAAGG 1260  
Db CTGACAGTGTGACATTCAGAGACCCAGGAACTTCTGAGTCGGGCTCACTACAAGACCCCAAGG 1260

QY 1261 ACTCCTTCCGCTGGGCCACAGGGGAGCACCAGGCTTTCACAGTTTTGGCCTTTGGGCGAGC 1320

|    |      |  |      |
|----|------|--|------|
| Db | 1261 | ACTCCTTCGCTTGGCCACAGGGGACACAGGCTTCACCACTTTTGCCTTTGGCAGC      | 1320 |
| Qy | 1321 | CTGCAACACCAGGGCTGTGTGGCTGAGTGTCTGCCATGGGTTTGGCAACTGGCTGGAGC  | 1380 |
| Db | 1321 | CTGACAACACCAGGGCTGTGTGGCTGAGTGTCTGCCATGGGTTTGGCAACTGGCTGGAGC | 1380 |
| Qy | 1381 | TGCAGGCTTCAGCTGCCCTTCAACTGGAGACACAGGCTGCAAAACCCGAAACCGTTACA  | 1440 |
| Db | 1391 | TGCAGGCTTCAGCTGCCCTTCAACTGGAGACACAGGCTGCAAAACCCGAAACCGTTACA  | 1440 |
| Qy | 1441 | TCTGCAGTTTTCGCCAGGACACATCTCCCGGTGGGGCCAGGGTCTCAGGCGCTGACCA   | 1500 |
| Db | 1441 | TCTGCCAGTTTTCGCCAGGACACATCTCCCGGTGGGGCCAGGGTCTCAGGCGCTGACCA  | 1500 |
| Qy | 1501 | CATGCTCTCCCTGCGCTGCGCTGGGAGCACCGGCTCTGTGTTACCTGTCTCCCACTGTCT | 1560 |
| Db | 1501 | CATGCTCTCCCTGCGCTGCGCTGGGAGCACCGGCTCTGTGTTACCTGTCTCCCACTGTCT | 1560 |
| Qy | 1561 | GGAAACAGGGCCAGGTTAAGACACATGCTCATCTCCAAGAGGCTCTCAGACCTTGCAC   | 1620 |
| Db | 1561 | GGAAACAGGGCCAGGTTAAGACACATGCTCATCTCCAAGAGGCTCTCAGACCTTGCAC   | 1620 |
| Qy | 1621 | AATGCCAAGATTGGGCAGAGAGAGGACAGGACCTGTAGGGGCCAGGAGTGTGTT       | 1680 |
| Db | 1621 | AATGCCAAGATTGGGCAGAGAGAGGACAGGACCTGTAGGGGCCAGGAGTGTGTT       | 1680 |
| Qy | 1681 | AGAAAGCTGGGGCCCTTCGCTCTTTTCATTCGGAGATGGGCTTCAATTAGATGC       | 1740 |
| Db | 1681 | AGAAAGCTGGGGCCCTTCGCTCTTTTCATTCGGAGATGGGCTTCAATTAGATGC       | 1740 |
| Qy | 1741 | GAAGAGAGGACACCGCAGTGGTCCAAAAAGGCTGCTCTCTTCACCTGGCCAGACCC     | 1800 |
| Db | 1741 | GAAGAGAGGACACCGCAGTGGTCCAAAAAGGCTGCTCTCTTCACCTGGCCAGACCC     | 1800 |
| Qy | 1801 | TGTGGGCAGCGGAGCTTCCTCTGTGGCATGAACCCACGGGTATTAATTATGAATCAG    | 1860 |
| Db | 1801 | TGTGGGCAGCGGAGCTTCCTCTGTGGCATGAACCCACGGGTATTAATTATGAATCAG    | 1860 |
| Qy | 1861 | CTGAAAAAATAAAAAA 1876  |      |
| Db | 1861 | CTGAAAAAATAAAAAA 1876  |      |

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RESULT 11
US-09-944-097-49
; Sequence 49, Application US/09944097
; Patent No. US20020133675A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerriksen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,097
; CURRENT FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/069,334
; SEQ ID NO 49
;
; PRIORITY APPLICATION NUMBER: PCT/US99/12252
; PRIORITY FILING DATE: June 22, 1999
; PRIORITY APPLICATION NUMBER: PCT/US99/21090
; PRIORITY FILING DATE: September 15, 1999
; PRIORITY APPLICATION NUMBER: PCT/US99/28409
; PRIORITY FILING DATE: No. US20020133675A1ember 30, 1999
; PRIORITY APPLICATION NUMBER: PCT/US99/28313
; PRIORITY FILING DATE: No. US20020133675A1ember 30, 1999
; PRIORITY APPLICATION NUMBER: PCT/US99/28301
; PRIORITY FILING DATE: December 1, 1999
; PRIORITY APPLICATION NUMBER: PCT/US99/30095
; PRIORITY FILING DATE: December 16, 1999
; PRIORITY APPLICATION NUMBER: PCT/US00/03565
; PRIORITY FILING DATE: February 11, 2000
; PRIORITY APPLICATION NUMBER: PCT/US00/04414
; PRIORITY FILING DATE: February 22, 2000
; PRIORITY APPLICATION NUMBER: PCT/US00/05841
; PRIORITY FILING DATE: March 2, 2000
; PRIORITY APPLICATION NUMBER: PCT/US00/08439
; PRIORITY FILING DATE: March 30, 2000
; PRIORITY APPLICATION NUMBER: PCT/US00/14042
; PRIORITY FILING DATE: May 22, 2000
; PRIORITY APPLICATION NUMBER: PCT/US00/20710
; PRIORITY FILING DATE: July 28, 2000
; PRIORITY APPLICATION NUMBER: PCT/US00/32678
; PRIORITY FILING DATE: December 1, 2000
; PRIORITY APPLICATION NUMBER: PCT/US01/06520
; PRIORITY FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 49

```





APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Gerritsen, Mary  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul  
APPLICANT: Grimaldi, Christopher  
APPLICANT: Gurney, Austen  
APPLICANT: Hillan, Kenneth  
APPLICANT: Kljavin, Ivar  
APPLICANT: Napier, Mary  
APPLICANT: Roy, Margaret  
APPLICANT: Tumas, Daniel  
APPLICANT: Wood, William  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P2548PIC1  
CURRENT APPLICATION NUMBER: US/09/944,432  
CURRENT FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 09/866,028  
PRIOR FILING DATE: 2001-05-25  
PRIOR APPLICATION NUMBER: 60/067,411  
PRIOR FILING DATE: December 3, 1997  
PRIOR APPLICATION NUMBER: 60/069,334  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069,335  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069,278  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069,425  
PRIOR FILING DATE: December 12, 1997  
PRIOR APPLICATION NUMBER: 60/069,696  
PRIOR FILING DATE: December 16, 1997  
PRIOR APPLICATION NUMBER: 60/069,694  
PRIOR FILING DATE: December 16, 1997  
PRIOR APPLICATION NUMBER: 60/069,702  
PRIOR FILING DATE: December 16, 1997  
PRIOR APPLICATION NUMBER: 60/069,870  
PRIOR FILING DATE: December 17, 1997  
PRIOR APPLICATION NUMBER: 60/069,873  
PRIOR FILING DATE: December 17, 1997  
PRIOR APPLICATION NUMBER: 60/068,017  
PRIOR FILING DATE: December 18, 1997  
PRIOR APPLICATION NUMBER: 60/070,440  
PRIOR FILING DATE: January 5, 1998  
PRIOR APPLICATION NUMBER: 60/074,086  
PRIOR FILING DATE: February 9, 1998  
PRIOR APPLICATION NUMBER: 60/074,092  
PRIOR FILING DATE: February 9, 1998  
PRIOR APPLICATION NUMBER: 60/075,945  
PRIOR FILING DATE: February 25, 1998  
PRIOR APPLICATION NUMBER: 60/112,850  
PRIOR FILING DATE: December 16, 1998  
PRIOR APPLICATION NUMBER: 60/113,296  
PRIOR FILING DATE: December 22, 1998  
PRIOR APPLICATION NUMBER: 60/146,222  
PRIOR FILING DATE: July 28, 1999  
PRIOR APPLICATION NUMBER: PCT/US98/19330  
PRIOR FILING DATE: September 16, 1998  
PRIOR APPLICATION NUMBER: PCT/US98/25108  
PRIOR FILING DATE: December 1, 1998  
PRIOR APPLICATION NUMBER: 09/216,021  
PRIOR FILING DATE: December 16, 1998  
PRIOR APPLICATION NUMBER: 09/218,517  
PRIOR FILING DATE: December 22, 1998  
PRIOR APPLICATION NUMBER: 09/254,311  
PRIOR FILING DATE: March 3, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/12252  
PRIOR FILING DATE: June 22, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: September 15, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/28409  
PRIOR FILING DATE: No. US20020142419A1ember 30, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/28313

PRIOR FILING DATE: No. US20020142419A1ember 30, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/28301  
PRIOR FILING DATE: December 1, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/30095  
PRIOR FILING DATE: December 16, 1999  
PRIOR APPLICATION NUMBER: PCT/US00/03565  
PRIOR FILING DATE: February 11, 2000  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: February 22, 2000  
PRIOR APPLICATION NUMBER: PCT/US00/05841  
PRIOR FILING DATE: March 2, 2000  
PRIOR APPLICATION NUMBER: PCT/US00/08439  
PRIOR FILING DATE: March 30, 2000  
PRIOR APPLICATION NUMBER: PCT/US00/14042  
PRIOR FILING DATE: May 22, 2000  
PRIOR APPLICATION NUMBER: PCT/US00/20710  
PRIOR FILING DATE: July 28, 2000  
PRIOR APPLICATION NUMBER: PCT/US00/32678  
PRIOR FILING DATE: December 1, 2000  
PRIOR APPLICATION NUMBER: PCT/US01/06520  
PRIOR FILING DATE: February 28, 2001  
NUMBER OF SEQ ID NOS: 120  
SEQ ID NO 49  
LENGTH: 1876  
TYPE: DNA  
ORGANISM: Homo Sapien  
US-09-944-432-49

Query Match 100.0%; Score 1876; DB 10; Length 1876;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCTTTTGTCCACCAGCCAGCCTGACTCTGGAGATTGTGAATAGCTCCATCCAGCCTG 60  
DB 1 CTCTTTTGTCCACCAGCCAGCCTGACTCTGGAGATTGTGAATAGCTCCATCCAGCCTG 60

QY 61 AGAAACAAGCCGGGTGGCTGAGCCAGGCTGTGCACGGAGCACCCTGACGGGCCCAACAGAC 120  
DB 61 AGAAACAAGCCGGGTGGCTGAGCCAGGCTGTGCACGGAGCACCCTGACGGGCCCAACAGAC 120

QY 121 CCATGCTGCATCCAGAGACCTCCCTGCGCGGGGCGCATCTCCTGGCTGTGCTCTGGCCC 180  
DB 121 CCATGCTGCATCCAGAGACCTCCCTGCGCGGGGCGCATCTCCTGGCTGTGCTCTGGCCC 180

QY 181 TCCTTGGCACCACTGGCAGAGGTGTGCCACCCAGCTGCAGGAGCAGGCTCCGATGG 240  
DB 181 TCCTTGGCACCACTGGCAGAGGTGTGCCACCCAGCTGCAGGAGCAGGCTCCGATGG 240

QY 241 CCGGAGCCCTGAACAGGAAGAGAGTTCCTTGTCTCTCTCCCTGCAACAACCGCCTGGCA 300  
DB 241 CCGGAGCCCTGAACAGGAAGAGAGTTCCTTGTCTCTCTCCCTGCAACAACCGCCTGGCA 300

QY 301 GCTGGGTCCAGCCCTGCGGCTGACATGGGAGGCTGGAGTGAGAGCTGGCC 360  
DB 301 GCTGGGTCCAGCCCTGCGGCTGACATGGGAGGCTGGAGTGAGAGCTGGCC 360

QY 361 AACTGGCTCAAGCCAGGCAGCCCTCTCTGTGAATCCCAACCCCGAGCCTGGCATCCGGCC 420  
DB 361 AACTGGCTCAAGCCAGGCAGCCCTCTCTGTGAATCCCAACCCCGAGCCTGGCATCCGGCC 420

QY 421 TGTGGCGCACCTGCAAGTGGGCTGGAACATGCACTGCTGCCCGGGGCTTGGCGTCT 480  
DB 421 TGTGGCGCACCTGCAAGTGGGCTGGAACATGCACTGCTGCCCGGGGCTTGGCGTCT 480

QY 481 TTCTTGAAGTGGTCAGCCTATGTTTGAGAGGGGCGAGGTTACAGCCAGCGGAGGAG 540  
DB 481 TTCTTGAAGTGGTCAGCCTATGTTTGAGAGGGGCGAGGTTACAGCCAGCGGAGGAG 540

QY 541 AGTGTGTCGCAAGCCACCTGCACCCACTACACAGCAGCTCGTGTGGGCGACCTCAAGCC 600  
DB 541 AGTGTGTCGCAAGCCACCTGCACCCACTACACAGCAGCTCGTGTGGGCGACCTCAAGCC 600

QY 601 AGCTGGGCTGTGGGCGGACCTGTGCTCTGCAGGCCAGACAGCGATAGAACGCTTTGTCT 660

[illegible]

## RESULT 13

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US/09-943-762-49
: Sequence 49, Application US/09943762
: Patent No. US2020142958A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin
: APPLICANT: Bolstein, David
: APPLICANT: Eaton, Dan
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Gerritsen, Mary
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul
: APPLICANT: Grimaldi, Christopher
: APPLICANT: Gurney, Austin
: APPLICANT: Hillan, Kenneth
: APPLICANT: Kljavin, Ivar
: APPLICANT: Napier, Mary
: APPLICANT: Roy, Margaret
: APPLICANT: Tumas, Daniel
: APPLICANT: Wood, William
: TITLE OF INVENTION: SECRETED AND TR
: TITLE OF INVENTION: ACIDS ENCODING
: FILE REFERENCE: P2548P1C1
: CURRENT APPLICATION NUMBER: US/09/9-9-26
: CURRENT FILING DATE: 2001-09-26
: PRIOR APPLICATION NUMBER: 09/866,02
: PRIOR FILING DATE: 2001-05-25
: PRIOR APPLICATION NUMBER: 60/067,41
: PRIOR FILING DATE: December 3, 1997
: PRIOR APPLICATION NUMBER: 60/069,33
: PRIOR FILING DATE: December 11, 1999
: PRIOR APPLICATION NUMBER: 60/069335
: PRIOR FILING DATE: December 11, 1999
: PRIOR APPLICATION NUMBER: 60/069,27
: PRIOR FILING DATE: December 11, 1999
: PRIOR APPLICATION NUMBER: 60/069,42
: PRIOR FILING DATE: December 12, 1999
: PRIOR APPLICATION NUMBER: 60/069,69
: PRIOR FILING DATE: December 16, 1999
: PRIOR APPLICATION NUMBER: 60/069,69
: PRIOR FILING DATE: December 16, 1999
: PRIOR APPLICATION NUMBER: 60/069,70
: PRIOR FILING DATE: December 16, 1999
: PRIOR APPLICATION NUMBER: 60/069,87
: PRIOR FILING DATE: December 17, 1999
: PRIOR APPLICATION NUMBER: 60/069,87
: PRIOR FILING DATE: December 17, 1999
: PRIOR APPLICATION NUMBER: 60/068,01
: PRIOR FILING DATE: December 18, 1999
: PRIOR APPLICATION NUMBER: 60/070,44
: PRIOR FILING DATE: January 5, 1998
: PRIOR APPLICATION NUMBER: 60/074,08
: PRIOR FILING DATE: February 9, 1998
: PRIOR APPLICATION NUMBER: 60/074,08
: PRIOR FILING DATE: February 9, 1998
: PRIOR APPLICATION NUMBER: 60/075,94
: PRIOR FILING DATE: February 25, 1999

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; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 49
; LENGTH: 1876
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-943-762-49

Query Match      100.0%; Score 1876; DB 10; Length 1876;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCCTTTTCCACCCAGCCCTGACTCTCTGGAGATTGTGAATAGCTCCATCCAGCCCTG 60
Db 1 CTCCTTTTCCACCCAGCCCTGACTCTCTGGAGATTGTGAATAGCTCCATCCAGCCCTG 60
QY 61 AGAACAAGCCGGGTGGCTGAGCCAGCTGTGCAACGGAGCACCTGACGGGCCCAACAGAC 120
Db 61 AGAACAAGCCGGGTGGCTGAGCCAGCTGTGCAACGGAGCACCTGACGGGCCCAACAGAC 120
QY 121 CCATGCTGCATCCAGAGACCTCCCTGGCGGGGGCATCTCCTGGCTGTGCTTGGGCC 180
Db 121 CCATGCTGCATCCAGAGACCTCCCTGGCGGGGGCATCTCCTGGCTGTGCTTGGGCC 180
QY 181 TCCTTGGCACCACTGGGAGAGGTGTGGCCACCCAGCTGCAGGAGCAGCTCCGATGG 240
Db 181 TCCTTGGCACCACTGGGAGAGGTGTGGCCACCCAGCTGCAGGAGCAGCTCCGATGG 240
QY 241 CCGGAGCCCTGAACAGAGAGAGTTTCTTGCTTCCCTCTCCCTGACAAACCGCTGGCGCA 300
Db 241 CCGGAGCCCTGAACAGAGAGAGTTTCTTGCTTCCCTCTCCCTGACAAACCGCTGGCGCA 300
QY 301 GCTGGGTCCAGCCCTGCGGCTGACATCGGAGGTGGACTGGAGTGACAGCTGGCC 360
Db 301 GCTGGGTCCAGCCCTGCGGCTGACATCGGAGGTGGACTGGAGTGACAGCTGGCC 360
QY 361 AACTGGGTCAAGCCAGGCGACCCCTCTGTGGAATCCAAACCCGAGCTGGCATCCGGCC 420
Db 361 AACTGGGTCAAGCCAGGCGACCCCTCTGTGGAATCCAAACCCGAGCTGGCATCCGGCC 420
QY 421 TGTGGCGCACCTGCAAGTGGCTGGAACATGCAGCTGCTGCCCGGGGCTTGGCGTCT 480
Db 421 TGTGGCGCACCTGCAAGTGGCTGGAACATGCAGCTGCTGCCCGGGGCTTGGCGTCT 480
QY 481 TTGTTGAAGTGTGTCAGAGGGGAGGGGTGACAGCGAGGTGCTGTGGCGGCGAGAG 540
Db 481 TTGTTGAAGTGTGTCAGAGGGGAGGGGTGACAGCGAGGTGCTGTGGCGGCGAGAG 540
QY 541 AGTGTGCTGCAACGCCACCTGACCCACTACACGAGCTGCTGTGGCGCACCTCAAGCC 600
Db 541 AGTGTGCTGCAACGCCACCTGACCCACTACACGAGCTGCTGTGGCGCACCTCAAGCC 600
QY 601 AGCTGGGCTGTGGCGGCGACCTGCTGTGTCAGGCGCAGAGCATAGAGCCTTTGTCT 660
Db 601 AGCTGGGCTGTGGCGGCGACCTGCTGTGTCAGGCGCAGAGCATAGAGCCTTTGTCT 660
QY 661 GTGCTACTTCCCGGAGGCAACTGGAGGTCAACGGGGAAGCAATCATCCCTTATAAGA 720
Db 661 GTGCTACTTCCCGGAGGCAACTGGAGGTCAACGGGGAAGCAATCATCCCTTATAAGA 720
QY 721 AGGTGCTGTGTTGCTGTGTCAGAGCAGTGTCTCAGGCTGCTTCAAAGCCTTGGACC 780
Db 721 AGGTGCTGTGTTGCTGTGTCAGAGCAGTGTCTCAGGCTGCTTCAAAGCCTTGGACC 780
QY 781 ATGCAGGGGGCTGCTGTGAGTCCCGAGGAATCTTGTGCGATGAGCTGCCAGAACATG 840
Db 781 ATGCAGGGGGCTGCTGTGAGTCCCGAGGAATCTTGTGCGATGAGCTGCCAGAACATG 840
QY 841 GACGTCTCAACATCAGCACCTGCCACTGCCACTGTCCCTTGGCTACACGGGAGATACT 900
Db 841 GACGTCTCAACATCAGCACCTGCCACTGCCACTGTCCCTTGGCTACACGGGAGATACT 900
QY 901 GCCAAGTGAAGTGCAGCTGAGTGTGTCACGGCGGCTTCCGGGAGGAGGTGCTCGT 960
Db 901 GCCAAGTGAAGTGCAGCTGAGTGTGTCACGGCGGCTTCCGGGAGGAGGTGCTCGT 960
QY 961 GCGTCTGTGACATCGGTACGGGGAGCCAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1020
Db 961 GCGTCTGTGACATCGGTACGGGGAGCCAGTGTGCCACCAAGGTGCAATTTCCCTTCC 1020
QY 1021 ACACCTGTGACCTGAGGATCGACGGAGACTGCTTTCATGTGTCTTTCAGAGGAGACCT 1080
Db 1021 ACACCTGTGACCTGAGGATCGACGGAGACTGCTTTCATGTGTCTTTCAGAGGAGACCT 1080
QY 1081 ATTACAGAGCCAGATGAATGTGAGAGAAAGGGGGGTGCTGGCCCGAGATCAAGAGCC 1140
Db 1081 ATTACAGAGCCAGATGAATGTGAGAGAAAGGGGGGTGCTGGCCCGAGATCAAGAGCC 1140
QY 1141 AGAAAGTGCAGGACATCCTCGCTTCTATCTGGCGCTTTCAGAGACCAACCAAGAGTGA 1200
Db 1141 AGAAAGTGCAGGACATCCTCGCTTCTATCTGGCGCTTTCAGAGACCAACCAAGAGTGA 1200
QY 1201 CTGACAGTGAATTCAGAGACCAAGAACTTCTGGATCGGGTCACTTCAAAGACGCCAAGG 1260
Db 1201 CTGACAGTGAATTCAGAGACCAAGAACTTCTGGATCGGGTCACTTCAAAGACGCCAAGG 1260
QY 1261 ACTTCTTCCGCTGGGCCACAGGGGAGCAGCAGCTTACACAGTTTGGCTTTGGGAGC 1320
Db 1261 ACTTCTTCCGCTGGGCCACAGGGGAGCAGCAGCTTACACAGTTTGGCTTTGGGAGC 1320
QY 1321 CTGACAAACCAAGGCTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1380
Db 1321 CTGACAAACCAAGGCTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1380
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1  PRIOR FILING DATE: December 11, 1997
2  PRIOR APPLICATION NUMBER: 60/069,425
3  PRIOR FILING DATE: December 12, 1997
4  PRIOR APPLICATION NUMBER: 60/069,696
5  PRIOR FILING DATE: December 16, 1997
6  PRIOR APPLICATION NUMBER: 60/069,694
7  PRIOR FILING DATE: December 16, 1997
8  PRIOR APPLICATION NUMBER: 60/069,702
9  PRIOR FILING DATE: December 16, 1997
10 PRIOR APPLICATION NUMBER: 60/069,870
11 PRIOR FILING DATE: December 17, 1997
12 PRIOR APPLICATION NUMBER: 60/069,873
13 PRIOR FILING DATE: December 17, 1997
14 PRIOR APPLICATION NUMBER: 60/068,017
15 PRIOR FILING DATE: December 18, 1997
16 PRIOR APPLICATION NUMBER: 60/070,440
17 PRIOR FILING DATE: January 5, 1998
18 PRIOR APPLICATION NUMBER: 60/074,086
19 PRIOR FILING DATE: February 9, 1998
20 PRIOR APPLICATION NUMBER: 60/074,092
21 PRIOR FILING DATE: February 9, 1998
22 PRIOR APPLICATION NUMBER: 60/075,945
23 PRIOR FILING DATE: February 25, 1998
24 PRIOR APPLICATION NUMBER: 60/112,850
25 PRIOR FILING DATE: December 16, 1998
26 PRIOR APPLICATION NUMBER: 60/113,296
27 PRIOR FILING DATE: December 22, 1998
28 PRIOR APPLICATION NUMBER: 60/146,222
29 PRIOR FILING DATE: July 28, 1999
30 PRIOR APPLICATION NUMBER: PCT/US98/19330
31 PRIOR FILING DATE: September 16, 1998
32 PRIOR APPLICATION NUMBER: PCT/US98/25108

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RESULT 14  
US-09-944-654-49  
; Sequence 49, Application US/099444654

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? NO DATE: June 27, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/21090
? PRIOR FILING DATE: September 15, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/28409
? PRIOR FILING DATE: No. US20020142959A1ember 30, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/28313
? PRIOR FILING DATE: No. US20020142959A1ember 30, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/28301
? PRIOR FILING DATE: December 1, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/30095
? PRIOR FILING DATE: December 16, 1999
? PRIOR APPLICATION NUMBER: PCT/US00/03565
? PRIOR FILING DATE: February 11, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/04414
? PRIOR FILING DATE: February 22, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/05841
? PRIOR FILING DATE: March 2, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/08439
? PRIOR FILING DATE: March 30, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/14042
? PRIOR FILING DATE: May 22, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/20710
? PRIOR FILING DATE: July 28, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/32678
? PRIOR FILING DATE: December 1, 2000
? PRIOR APPLICATION NUMBER: PCT/US01/06520
? PRIOR FILING DATE: February 28, 2001
? NUMBER OF SEQ ID NOS: 120
? SEQ ID NO 49
? LENGTH: 1876
? TYPE: DNA
? ORGANISM: Homo Sapien
? OS=09-944-654-49

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| Query Match                |     |   |      | Score 1876; DB 10; Length 1876;    |  |  |  |
|----------------------------|-----|---|------|------------------------------------|--|--|--|
| Best Local Similarity      |     |   |      | 100.0%; Pred. No. 0;               |  |  |  |
| Matches 1876; Conservative |     |   |      | 0; Mismatches 0; Indels 0; Gaps 0; |  |  |  |
| Qy                         | 1   | CTCTTTTGTCCACAGCCAGCCTGACTCTCTGGAGATTGTAATAGTTCATCCAGCCTG     | 60   |                                    |  |  |  |
| Db                         | 1   | CTCTTTTGTCCACAGCCAGCCTGACTCTCTGGAGATTGTAATAGTTCATCCAGCCTG     | 60   |                                    |  |  |  |
| Qy                         | 61  | AGAAACAAGCCGGTGGCTGAGCCAGCTGTCACGAGACACCTGACGGGCCACACAGAC     | 120  |                                    |  |  |  |
| Db                         | 61  | AGAAACAAGCCGGTGGCTGAGCCAGCTGTCACGAGACACCTGACGGGCCACACAGAC     | 120  |                                    |  |  |  |
| Qy                         | 121 | CCATGCTGATCCAGAGACCTCCCTGGCGGGGGCATCTCTGGCTGTGCTCTGGGCC       | 180  |                                    |  |  |  |
| Db                         | 121 | CCATGCTGATCCAGAGACCTCCCTGGCGGGGGCATCTCTGGCTGTGCTCTGGGCC       | 180  |                                    |  |  |  |
| Qy                         | 181 | TCCTTGGACACCTGGGAGAGGTGTGGCCACCCAGCTGCAGAGACAGGTTCGATGG       | 240  |                                    |  |  |  |
| Db                         | 181 | TCCTTGGACACCTGGGAGAGGTGTGGCCACCCAGCTGCAGAGACAGGTTCGATGG       | 240  |                                    |  |  |  |
| Qy                         | 241 | CGGAGCCCTGAACAGAGAGAGTTTCTTGCTCTCTCCCTGCACAAACCCCTCGCA        | 300  |                                    |  |  |  |
| Db                         | 241 | CGGAGCCCTGAACAGAGAGAGTTTCTTGCTCTCTCCCTGCACAAACCCCTCGCA        | 300  |                                    |  |  |  |
| Qy                         | 301 | GCTGGTCCAGCCCTGCGGCTGACATGCGGAGGCTGGACTGGAGTGACAGCCTGGGCC     | 360  |                                    |  |  |  |
| Db                         | 301 | GCTGGTCCAGCCCTGCGGCTGACATGCGGAGGCTGGACTGGAGTGACAGCCTGGGCC     | 360  |                                    |  |  |  |
| Qy                         | 361 | AAGTGGCTCAAGCCAGGCGAGCCTCTGTGGATCCCAACCCAGCCTGGCATCCGGCC      | 420  |                                    |  |  |  |
| Db                         | 361 | AAGTGGCTCAAGCCAGGCGAGCCTCTGTGGATCCCAACCCAGCCTGGCATCCGGCC      | 420  |                                    |  |  |  |
| Qy                         | 421 | TGTGGCGCACCTGCAAGTGGGTGGAAACATGACGTGCTGCCCGGGCTTGGGCTCT       | 480  |                                    |  |  |  |
| Db                         | 421 | TGTGGCGCACCTGCAAGTGGGTGGAAACATGACGTGCTGCCCGGGCTTGGGCTCT       | 480  |                                    |  |  |  |
| Qy                         | 481 | TTGTTGAAGTGTGAGCCTATGTTTCAGAGGGGACGCGGTACAGCCACGCGGAGGAG      | 540  |                                    |  |  |  |
| Db                         | 481 | TTGTTGAAGTGTGAGCCTATGTTTCAGAGGGGACGCGGTACAGCCACGCGGAGGAG      | 540  |                                    |  |  |  |
| Qy                         | 541 | AGTGTCTCGCAAGCCACCTGCACCCACATACAGCAGCTGTGTGGCCACCTCAAGCC      | 600  |                                    |  |  |  |
| Db                         | 541 | AGTGTCTCGCAAGCCACCTGCACCCACATACAGCAGCTGTGTGGCCACCTCAAGCC      | 600  |                                    |  |  |  |
| Qy                         | 601 | AGCTGGGCTGTGGCGGCACCTGTGCTCTGAGGGGACGCGGTACAGCCATAGAGCCTTGTCT | 660  |                                    |  |  |  |
| Db                         | 601 | AGCTGGGCTGTGGCGGCACCTGTGCTCTGAGGGGACGCGGTACAGCCATAGAGCCTTGTCT | 660  |                                    |  |  |  |
| Qy                         | 661 | GTCCCTACTCCCGGAGGCAACTGGGAGGTCAAGGGGAAGACAATCATCCCTATAAGA     | 720  |                                    |  |  |  |
| Db                         | 661 | GTCCCTACTCCCGGAGGCAACTGGGAGGTCAAGGGGAAGACAATCATCCCTATAAGA     | 720  |                                    |  |  |  |
| Qy                         | 721 | AGGTGCTGTGCTCTGTCACAGCCAGTGTCTAGGCTGTCTCAAGCCTGGGACC          | 780  |                                    |  |  |  |
| Db                         | 721 | AGGTGCTGTGCTCTGTCACAGCCAGTGTCTAGGCTGTCTCAAGCCTGGGACC          | 780  |                                    |  |  |  |
| Qy                         | 781 | ATCAGGGGGCTGTGTAGTTCGCCAGGAATCTTGTGCGATGAGTGCACAGCAATATG      | 840  |                                    |  |  |  |
| Db                         | 781 | ATCAGGGGGCTGTGTAGTTCGCCAGGAATCTTGTGCGATGAGTGCACAGCAATATG      | 840  |                                    |  |  |  |
| Qy                         | 841 | GAGCTCTCAACATCAGACCTGCCACTGTGCCCTGTGCCCTGTACAGGGCAGATACT      | 900  |                                    |  |  |  |
| Db                         | 841 | GAGCTCTCAACATCAGACCTGCCACTGTGCCCTGTGCCCTGTACAGGGCAGATACT      | 900  |                                    |  |  |  |
| Qy                         | 901 | GCCAAGTGAGTGCAGCCTGCAGTGTGTCACGCGCGGTTCGGGAGGAGGTGCTCGT       | 960  |                                    |  |  |  |
| Db                         | 901 | GCCAAGTGAGTGCAGCCTGCAGTGTGTCACGCGCGGTTCGGGAGGAGGTGCTCGT       | 960  |                                    |  |  |  |
| Qy                         | 961 | GCCTGTGTGATCGGCTACGGGGAGCCCAAGTGTGCCACCAAGTGATTTTCCCTTCC      | 1020 |                                    |  |  |  |
| Db                         | 961 | GCCTGTGTGATCGGCTACGGGGAGCCCAAGTGTGCCACCAAGTGATTTTCCCTTCC      | 1020 |                                    |  |  |  |

RESULT 15

US-09-943-851A-49  
; Sequence 49, Application US/09943851A  
; Patent No. US20020150976A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey

|    |      |   |      |
|----|------|---|------|
| Qy | 1021 | ACACCTGTGACCTGAGGATCAGCGAGACTGCTCATGGTGTCTTCAGAGGAGACACCT     | 1080 |
| Db | 1021 | ACACCTGTGACCTGAGGATCAGCGAGACTGCTCATGGTGTCTTCAGAGGAGACACCT     | 1080 |
| Qy | 1081 | ATTACAGAGCCAGGATGAAATGTCAGAGAAAGCGGGTCTGGCCCGAGATCAAGAGCC     | 1140 |
| Db | 1081 | ATTACAGAGCCAGGATGAAATGTCAGAGAAAGCGGGTCTGGCCCGAGATCAAGAGCC     | 1140 |
| Qy | 1141 | AGAAAGTGCAGGACATCCTCGCTTCTATCTGGCGCCTGGAGACCAACAGAGGTGA       | 1200 |
| Db | 1141 | AGAAAGTGCAGGACATCCTCGCTTCTATCTGGCGCCTGGAGACCAACAGAGGTGA       | 1200 |
| Qy | 1201 | CTGACAGTCTTCAGAGACCACTTCAGAGGAACTTCAGAGGCGCTCAGTCAAGAGCCGCAAG | 1260 |
| Db | 1201 | CTGACAGTCTTCAGAGACCACTTCAGAGGAACTTCAGAGGCGCTCAGTCAAGAGCCGCAAG | 1260 |
| Qy | 1261 | ACTCCTTCCGCTGGCGCACAGGAGACAGGCGCTTACACAGTTCCTGCTTTGGGCGAG     | 1320 |
| Db | 1261 | ACTCCTTCCGCTGGCGCACAGGAGACAGGCGCTTACACAGTTCCTGCTTTGGGCGAG     | 1320 |
| Qy | 1321 | CTGACAAACCGGGCTGTGTGGCTGAGTGTGCCATGGGGTTTGGCAACTGCTGGAGC      | 1380 |
| Db | 1321 | CTGACAAACCGGGCTGTGTGGCTGAGTGTGCCATGGGGTTTGGCAACTGCTGGAGC      | 1380 |
| Qy | 1381 | TGCAAGCTTCAGCTGCTTCAACTGGAAGGACAGGCGTGCAGAAACCCGAAACCGTTACA   | 1440 |
| Db | 1381 | TGCAAGCTTCAGCTGCTTCAACTGGAAGGACAGGCGTGCAGAAACCCGAAACCGTTACA   | 1440 |
| Qy | 1441 | TCTCCAGTTTGGCCAGGAGCACATCTCCCGTGGGGCCAGGGTCTTAGGGCTGACCA      | 1500 |
| Db | 1441 | TCTCCAGTTTGGCCAGGAGCACATCTCCCGTGGGGCCAGGGTCTTAGGGCTGACCA      | 1500 |
| Qy | 1501 | CATGGCTCCCTCGCTGGCGACCGGCTCTGTTCCTGCTGTCTGCTGCTGCTGCTGCT      | 1560 |
| Db | 1501 | CATGGCTCCCTCGCTGGCGACCGGCTCTGTTCCTGCTGTCTGCTGCTGCTGCTGCT      | 1560 |
| Qy | 1561 | GGAACAGGGCCAGGTTAAGACACATGCTCATGTCGAAAGAGTCTCAGACCTTGAC       | 1620 |
| Db | 1561 | GGAACAGGGCCAGGTTAAGACACATGCTCATGTCGAAAGAGTCTCAGACCTTGAC       | 1620 |
| Qy | 1621 | AATCCCAAGTGTGGCGAGAGAGGAGGAGGCGGAGGCGGAGGAGGAGGAGGAGTGT       | 1680 |
| Db | 1621 | AATCCCAAGTGTGGCGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGT          | 1680 |
| Qy | 1681 | AGAAAGCTGGGCGCTTGGCGCTGCTTTGATTTGGAAGATGGGCTTCAATTAGATGGC     | 1740 |
| Db | 1681 | AGAAAGCTGGGCGCTTGGCGCTGCTTTGATTTGGAAGATGGGCTTCAATTAGATGGC     | 1740 |
| Qy | 1741 | GAAGGAGGAGCACCGCCAGTGGTCCAAAGAGCTCTCTTCCACCTGCGCCAGACCC       | 1800 |
| Db | 1741 | GAAGGAGGAGCACCGCCAGTGGTCCAAAGAGCTCTCTTCCACCTGCGCCAGACCC       | 1800 |
| Qy | 1801 | TGTGGGGCAGGAGCTTCCCTGTGGCATGAACCCACGGGGTATTAAATATGAATCAG      | 1860 |
| Db | 1801 | TGTGGGGCAGGAGCTTCCCTGTGGCATGAACCCACGGGGTATTAAATATGAATCAG      | 1860 |
| Qy | 1861 | CTGAAAAAATAAAAAA 1876   |      |
| Db | 1861 | CTGAAAAAATAAAAAA 1876   |      |





|    |      |  |  |     |
|----|------|--|--|-----|
| Db | 661  |  | GTGCCTACTCCCGGAGCAACTGGAGGTCAACGGGAAGACAATCATCCCTTATAAGA | 720 |
| QY | 721  | AGGGTGCCCTGGTGTTCGCTCTGCACAGCCAGTGTCTCAGGCTGCTCAAAGCCTGGGACC | 780  |     |
| Db | 721  | AGGGTGCCCTGGTGTTCGCTCTGCACAGCCAGTGTCTCAGGCTGCTCAAAGCCTGGGACC | 780  |     |
| QY | 781  | ATGCAGGGGGGCTCTGTGAGGTCCCCAGGAATCCTTGTTCGATAGCTGCCAAGCAATG   | 840  |     |
| Db | 781  | ATGCAGGGGGGCTCTGTGAGGTCCCCAGGAATCCTTGTTCGATAGCTGCCAAGCAATG   | 840  |     |
| QY | 841  | GACGCTCAACATCAGCACTGCCACTGCCACTGTCCCTCGCTACACGGGCAGATACT     | 900  |     |
| Db | 841  | GACGCTCAACATCAGCACTGCCACTGCCACTGTCCCTCGCTACACGGGCAGATACT     | 900  |     |
| QY | 901  | GCCAAGTGAGCTGCACCTGCAGTGTGCACGGCCGGTTCGGGAGGAGAGTGCTCGT      | 960  |     |
| Db | 901  | GCCAAGTGAGCTGCACCTGCAGTGTGCACGGCCGGTTCGGGAGGAGAGTGCTCGT      | 960  |     |
| QY | 961  | CGCTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCACCAAGGTGCATTTTCCCTTCC   | 1020   |     |
| Db | 961  | CGCTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCACCAAGGTGCATTTTCCCTTCC   | 1020   |     |
| QY | 1021 | ACACCTGTGACCTGAGGATCGACGGAGACTGCTTCATGTGCTTCAGAGGCAGACACCT   | 1080   |     |
| Db | 1021 | ACACCTGTGACCTGAGGATCGACGGAGACTGCTTCATGTGCTTCAGAGGCAGACACCT   | 1080   |     |
| QY | 1081 | ATTACAGAGCCAGGATGAATGTACAGAGAAAGCGGGGTGCTGGCCACATCAAGAGCC    | 1140   |     |
| Db | 1081 | ATTACAGAGCCAGGATGAATGTACAGAGAAAGCGGGGTGCTGGCCACATCAAGAGCC    | 1140   |     |
| QY | 1141 | AGAAAGTGCAGGACATCTCGCCTTCTATCTGGGCCGCTTGAGAGCACCAACGAGGTGA   | 1200   |     |
| Db | 1141 | AGAAAGTGCAGGACATCTCGCCTTCTATCTGGGCCGCTTGAGAGCACCAACGAGGTGA   | 1200   |     |
| QY | 1201 | CTGACAGTGACTTCAGAGACCAGAACTTCGATCGGCTCACCTACAGACCGCCAAAGG    | 1260   |     |
| Db | 1201 | CTGACAGTGACTTCAGAGACCAGAACTTCGATCGGCTCACCTACAGACCGCCAAAGG    | 1260   |     |
| QY | 1261 | ACTCCTTCGGCTGGCCACAGGGAGCACAGGCGCTTACCAGTTTGTGCTTTGGGCAGC    | 1320   |     |
| Db | 1261 | ACTCCTTCGGCTGGCCACAGGGAGCACAGGCGCTTACCAGTTTGTGCTTTGGGCAGC    | 1320   |     |
| QY | 1321 | CTGACAAACCGGGCTGTGTGGCTGAGTGTGCCATGGGTTTGGCACTGGCGTGGAGC     | 1380   |     |
| Db | 1321 | CTGACAAACCGGGCTGTGTGGCTGAGTGTGCCATGGGTTTGGCACTGGCGTGGAGC     | 1380   |     |
| QY | 1381 | TGCAGGCTTCAGTGCCTTCAACTGGAAAGCACAGCGCTGCAAAACCCGAAACCGTTACA  | 1440   |     |
| Db | 1381 | TGCAGGCTTCAGTGCCTTCAACTGGAAAGCACAGCGCTGCAAAACCCGAAACCGTTACA  | 1440   |     |
| QY | 1441 | TCTGCCAGTTTGGCCAGAGACATCTCCCGTGGGGCCAGGGTCTCAGAGCCTGACCA     | 1500   |     |
| Db | 1441 | TCTGCCAGTTTGGCCAGAGACATCTCCCGTGGGGCCAGGGTCTCAGAGCCTGACCA     | 1500   |     |
| QY | 1501 | CATGGCTCCCTCGCTGCGCTGGGAGCACGGCTCTGCTTACCTGTCTGCCACCTGTCT    | 1560   |     |
| Db | 1501 | CATGGCTCCCTCGCTGCGCTGGGAGCACGGCTCTGCTTACCTGTCTGCCACCTGTCT    | 1560   |     |
| QY | 1561 | GGAACAAGGGCCAGGTTAAGACCACATCGCTCATGTCCAAAGAGTCTCAGACCTTGCAC  | 1620   |     |
| Db | 1561 | GGAACAAGGGCCAGGTTAAGACCACATCGCTCATGTCCAAAGAGTCTCAGACCTTGCAC  | 1620   |     |
| QY | 1621 | AATSCCAGAGTTGGGCAGAGAGGCGAGGAGCCAGTGGGGCCAGGGAGTGAGTGTT      | 1680   |     |
| Db | 1621 | AATSCCAGAGTTGGGCAGAGAGGCGAGGAGCCAGTGGGGCCAGGGAGTGAGTGTT      | 1680   |     |
| QY | 1681 | AGAAGAAGCTGGGGCCCTTCGCTCTTTGATTTGGGAAGATGGGCTTCAATTAGATGC    | 1740   |     |
| Db | 1681 | AGAAGAAGCTGGGGCCCTTCGCTCTTTGATTTGGGAAGATGGGCTTCAATTAGATGC    | 1740   |     |
| QY | 1741 | GAAGGAGGAGACCCGCCAGTGGTCCAAAAGGCTGCTCTTCCACCTTGCCCCAGACC     | 1800   |     |
| Db | 1741 | GAAGGAGGAGACCCGCCAGTGGTCCAAAAGGCTGCTCTTCCACCTTGCCCCAGACC     | 1800   |     |

```

Db 1741 GAAGGAGAGACACCGCCAGTGGTCCAAAAAGGTGCTCTCTTCACCTGGCCAGACCC 1800
QY 1801 TGTGGGCGCAGCGAGCTTCCTGTGGCATGAACCCACGGGGTATTAAATTATGAATCAG 1860
Db 1801 TGTGGGCGCAGCGAGCTTCCTGTGGCATGAACCCACGGGGTATTAAATTATGAATCAG 1860
QY 1861 CTGAAAAAATAAAAAA 1876
Db 1861 CTGAAAAAATAAAAAA 1876

RESULT 16
US-09-790-264-1
; Sequence 1, Application US/09790264
; Patent No. US20020028508A1
; GENERAL INFORMATION:
; APPLICANT: Holtzman, Douglas A.
; APPLICANT: Goodearl, Andrew D.J.
; APPLICANT: McCarthy, Sean A.
; TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING
; TITLE OF INVENTION: PROGNASTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER
; TITLE OF INVENTION: USES
; FILE REFERENCE: 07334-322001
; CURRENT APPLICATION NUMBER: US/09/790,264
; CURRENT FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: US 09/065,661
; PRIOR FILING DATE: 1998-04-23
; PRIOR APPLICATION NUMBER: US 09/298,531
; PRIOR FILING DATE: 1999-04-23
; PRIOR APPLICATION NUMBER: US 09/065,363
; PRIOR FILING DATE: 1998-04-23
; PRIOR APPLICATION NUMBER: US 09/337,930
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/102,705
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: US 09/363,630
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: US 09/124,538
; PRIOR FILING DATE: 1998-07-29
; NUMBER OF SEQ ID NOS: 68
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1856
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (95)...(1432)
US-09-790-264-1

Query Match 54.9%; Score 1029; DB 10; Length 1856;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 122; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 102 CCTGACGGGCCCCAACAGACCCATGCTGCATCCAGAGACCTCCCTGCGCGGGGCATCTC 161
Db 74 CCTGACGGGCCCCAACAGACCCATGCTGCATCCAGAGACCTCCCTGCGCGGGGCATCTC 133
QY 162 CTGGCTGTGCTCTGGCCCTCTTGGCACCACTTGGCGAGAGGTGTGGCCACCCAGCTG 221
Db 134 CTGGCTGTGCTCTGGCCCTCTTGGCACCGCTTGGCGAGAGGTGTGGCCACCCAGCTG 193
QY 222 CAGGAGAGGCTCCGATGGCGGAGGCCCTGAACAGAGAGAGATTTCCTGCTCCTGCC 281
Db 194 CAGGAGAGGCTCCGATGGCGGAGGCCCTGAACAGAGAGAGATTTCCTGCTCCTGCC 253
QY 282 CTGCACAAACCCCTGCGCAGCTGGGTCCAGACCCCTTGGCGCTGACATGCGGAGGCTGCAC 341
Db 254 CTGCACAAACCCCTGCGCAGCTGGGTCCAGCCCTTGGCGCTGACATGCGGAGGCTGCAC 313
QY 342 TGGAGTGACAGCTTGGGCCAACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACC 401
Db 314 TGGAGTGACAGCTTGGGCCAACTGGCTCAAGCCAGGCGAGCCCTCTGTGGAATCCCAACC 373

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|      |   |      |
|------|---|------|
| 402  | CGAGCCTGGCATCCGGCCTGTGGCGCACCTGCAAGTGGCTGGAACATGCAGTGC      | 461  |
| QY   |   |      |
|      |   |      |
| 374  | CGAGCCTGGCTCCGCCCTGTGGCGCACCTGCAAGTGGCTGGAACATGCAGTGC       | 433  |
| Db   |   |      |
|      |   |      |
| 462  | CCCGGGGCTTGGGCTGCTTTGTTGAAGTGGTCAGCCTATGTTTGCAGAGGGCAGCG    | 521  |
| QY   |   |      |
|      |   |      |
| 434  | CCCGGGGCTTGGGCTGCTTTGTTGAAGTGGTCAGCCTATGTTTGCAGAGGGCAGCG    | 493  |
| Db   |   |      |
|      |   |      |
| 522  | TACAGCCACGGCAGGAGAGTGTCTGCAACAGCCACCTGCACCCACATACACGAGCTC   | 581  |
| QY   |   |      |
|      |   |      |
| 494  | TACAGCCACGGCAGGAGAGTGTCTGCAACGCCACCTGCACCCACATACAGCAGCTC    | 553  |
| Db   |   |      |
|      |   |      |
| 582  | GTGTGGGCCAOCCTCAAGCCAGCTGGGTGTGGGGGCACTGTGCTCTGAGGCCAGACA   | 641  |
| QY   |   |      |
|      |   |      |
| 554  | GTGTGGGCCAOCCTCAAGCCAGCTGGGTGTGGGGGCACTGTGCTCTGAGGCCAGACA   | 613  |
| Db   |   |      |
|      |   |      |
| 642  | GCGATAGAAGCCTTGTCTGTGCCCTACTCCCGGAGGCAACTGGAGGTCAACGGGAAG   | 701  |
| QY   |   |      |
|      |   |      |
| 614  | GCGATAGAAGCCTTGTCTGTGCCCTACTCCCGGAGGCAACTGGAGGTCAACGGGAAG   | 673  |
| Db   |   |      |
|      |   |      |
| 702  | ACAATCATCCCTATAAGAAGGGTGCCTGTGTTGCTCTGCACAGCAGTGTCTCAGGC    | 761  |
| QY   |   |      |
|      |   |      |
| 674  | ACAATCATCCCTATAAGAAGGGTGCCTGTGTTGCTCTGCACAGCAGTGTCTCAGGC    | 733  |
| Db   |   |      |
|      |   |      |
| 762  | TGCTTCAAGCCTGGGACCATGCAAGGGGGCTCTGTGAGTCCCCAGGAATCCTTCGCG   | 821  |
| QY   |   |      |
|      |   |      |
| 734  | TGCTTCAAGCCTGGGACCATGCAAGGGGGCTCTGTGAGTCCCCAGGAATCCTTCGCG   | 793  |
| Db   |   |      |
|      |   |      |
| 822  | ATGAGCTGCGAAGCACTATGGACGTCTCAACATCAGCACTGCCACTGCCACTGTCC    | 881  |
| QY   |   |      |
|      |   |      |
| 794  | ATGAGCTGCCAGAACCATGGACGTCTCAACATCAGCACTGCCACTGCCACTGTCC     | 853  |
| Db   |   |      |
|      |   |      |
| 882  | GGCTACAGGGCAGATATCGCAAGTGAAGTGCAGCCTGCAGTGTGTGCACGCCGGTTC   | 941  |
| QY   |   |      |
|      |   |      |
| 854  | GGCTACAGGGCAGATATCGCAAGTGAAGTGCAGCCTGCAGTGTGTGCACGCCGGTTC   | 913  |
| Db   |   |      |
|      |   |      |
| 942  | CSGGAGGAGAGTGTCTGTGGTCTGTACATCGGCTACGGGGAGGCCAGTGTGCCACC    | 1001 |
| QY   |   |      |
|      |   |      |
| 914  | CSGGAGGAGAGTGTCTGTGGTCTGTACATCGGCTACGGGGAGGCCAGTGTGCCACC    | 973  |
| Db   |   |      |
|      |   |      |
| 1002 | AAGGTGCATTTTCCCTTCCACACCTGTGACCTGAGGATCGACGGAGACTGCTTCATGGT | 1061 |
| QY   |   |      |
|      |   |      |
| 974  | AAGGTGCATTTTCCCTTCCACACCTGTGACCTGAGGATCGACGGAGACTGCTTCATGGT | 1033 |
| Db   |   |      |
|      |   |      |
| 1062 | TCTTCAGAGGCAGACACCTATTACAGAGCCAGGATGAATCTCAGAGGAAGCGGGGTG   | 1121 |
| QY   |   |      |
|      |   |      |
| 1034 | TCTTCAGAGGCAGACACCTATTACAGAGCCAGGATGAATCTCAGAGGAAGCGGGGTG   | 1093 |
| Db   |   |      |
|      |   |      |
| 1122 | CTGGCCAGATCAAGAGCCAGAAAGTGGAGGACATCTTCGCTTCTATCTGGGCCGCTG   | 1181 |
| QY   |   |      |
|      |   |      |
| 1094 | CTGGCCAGATCAAGAGCCAGAAAGTGGAGGACATCTTCGCTTCTATCTGGGCCGCTG   | 1153 |
| Db   |   |      |
|      |   |      |
| 1182 | GAGACACCAACAGAGTGACTGACAGTGAATCTCGAGACCGAGAACTTCTGATCGGCTC  | 1241 |
| QY   |   |      |
|      |   |      |
| 1154 | GAGACACCAACAGAGTGATGACAGTGAATCTCGAGACCGAGAACTTCTGATCGGCTC   | 1213 |
| Db   |   |      |
|      |   |      |
| 1242 | ACCTAAGAGCCGCCAAGGACTTCCTTCGCTGGGCCACAGGGGAGCACCGGCCCTTCA   | 1301 |
| QY   |   |      |
|      |   |      |
| 1214 | ACCTAAGAGCCGCCAAGGACTTCCTTCGCTGGGCCACAGGGGAGCACCGGCCCTTCA   | 1273 |
| Db   |   |      |
|      |   |      |
| 1302 | AGTTTTCGCTTTGGGCGAGCCTGACAAACACGGG                          | 1334 |
| QY   |   |      |
|      |   |      |
| 1274 | AGTTTTCGCTTTGGGCGAGCCTGACAAACACGGG                          | 1306 |
| Db   |   |      |
|      |   |      |

RESULT 17  
US-10-042-141-12  
; Sequence 12, Application US/10042141  
; Publication No. US20020183503A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: 26 Human secret

```

; FILE REFERENCE: PZ040P1
; CURRENT APPLICATION NUMBER: US/10/042.141
; CURRENT FILING DATE: 2002-01-11
; PRIOR APPLICATION NUMBER: 09/726,643
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: PCT/US00/15187
; PRIOR FILING DATE: 2000-06-02
; PRIOR APPLICATION NUMBER: 60/137,725
; PRIOR FILING DATE: 1999-06-07
; NUMBER OF SEQ ID NOS: 190
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 1923
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-042-141-12

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| Query Match           | 54.98;       | Score 1029;  | DB 9;         | Length 1923; |         |
|-----------------------|--------------|--|---------------|--------------|---------|
| Best Local Similarity | 99.7%;       | Prod. No. 0;   |               |              |         |
| Matches 1229;         | Conservative | 0;   | Mismatches 4; | Indels 0;    | Gaps 0; |
| QY                    | 102          | CCTGACGGGCCAACAGACCCATGCTGCATCCAGAGACTCCCTCGCGGGGGCATCTC     | 161           |              |         |
| DB                    | 119          |  |               |              |         |
| QY                    | 162          | CTGGCTGTGCTCTGGCCCTCTTGGCACCACTCGGCGAGAGGTGTGCCACCCAGCTG     | 221           |              |         |
| DB                    | 179          | CTGGCTGTGCTCTGGCCCTCTTGGCACCGCTTGGCGAGAGGTGTGCCACCCAGCTG     | 238           |              |         |
| QY                    | 222          | CAGGAGCAGGCTCCGATGCCGGAGCCCTGAACAGAGGAGAGTTTCTTGCTCTCTCC     | 281           |              |         |
| DB                    | 239          | CAGGAGCAGGCTCCGATGCCGGAGCCCTGAACAGAGGAGAGTTTCTTGCTCTCTCC     | 298           |              |         |
| QY                    | 282          | CTGCACAACCGCTCGCAGCTGGGTCCAGCCCTCGCGCTGACATGCGAGGTGGAC       | 341           |              |         |
| DB                    | 299          | CTGCACAACCGCTCGCAGCTGGGTCCAGCCCTCGCGCTGACATGCGAGGTGGAC       | 358           |              |         |
| QY                    | 342          | TGAGGTGACAGCTTGGCCCAACTGGCTCAAGCGAGGCGAGCCCTCTGTGGAATCCCAACC | 401           |              |         |
| DB                    | 359          | TGAGGTGACAGCTTGGCCCAACTGGCTCAAGCGAGGCGAGCCCTCTGTGGAATCCCAACC | 418           |              |         |
| QY                    | 402          | CCGAGCTTGGCATCCGGCTGTGGCGCACCTTGCRAAGTGGGCTGGAACATGCAGCTGCTG | 461           |              |         |
| DB                    | 419          | CCGAGCTTGGCTTGGCGCTGTGGCGCACCTTGCRAAGTGGGCTGGAACATGCAGCTGCTG | 478           |              |         |
| QY                    | 462          | CCCGCGGGCTTGGCGTCTTTGTGAAAGTGGTCAGCCTATGTTGTCAGAGGGGCGAGCG   | 521           |              |         |
| DB                    | 479          | CCCGCGGGCTTGGCGTCTTTGTGAAAGTGGTCAGCCTATGTTGTCAGAGGGGCGAGCG   | 538           |              |         |
| QY                    | 522          | TACAGCCACGGCGCAGGAGAGTGTGCTCGCAGCGCCACCTGCACCCACTACAGCGAGCTC | 581           |              |         |
| DB                    | 539          | TACAGCCACGGCGCAGGAGAGTGTGCTCGCAGCGCCACCTGCACCCACTACAGCGAGCTC | 598           |              |         |
| QY                    | 582          | GTGTGGGCCACCTCAAGCAGCTGGGCTGTGGCGGCACCTGTGCTCTCGAGGCCAGACA   | 641           |              |         |
| DB                    | 599          | GTGTGGGCCACCTCAAGCAGCAGCTGGGCTGTGGCGGCACCTGTGCTCTCGAGGCCAGCA | 658           |              |         |
| QY                    | 642          | GCATAGAAGCCTTTGTCTGTGCTACTCCCCGGAGGCAACTGGGAGGTCAACGGGAAG    | 701           |              |         |
| DB                    | 659          | GCATAGAAGCCTTTGTCTGTGCTACTCCCCGGAGGCAACTGGGAGGTCAACGGGAAG    | 718           |              |         |
| QY                    | 702          | ACAATCATCCCTATAGAAGGCTGCGTTCCTCTGCACAGCCAGTGTCTCAGGC         | 761           |              |         |
| DB                    | 719          | ACAATCATCCCTATAGAAGGCTGCGTTCCTCTGCACAGCCAGTGTCTCAGGC         | 778           |              |         |
| QY                    | 762          | TGCTTCAAGCCTTGGACCATGACAGGGGGCTCTGTGAGTCCCCAGGAATCCTTGTGCG   | 821           |              |         |
| DB                    | 779          | TGCTTCAAGCCTTGGACCATGACAGGGGGCTCTGTGAGTCCCCAGGAATCCTTGTGCG   | 838           |              |         |
| QY                    | 822          | ATGAGCTGCCAGAACCATGGACGTCTCAACATCAGCACCTGCCACTGCCACTGTCCCT   | 881           |              |         |
| DB                    | 839          | ATGAGCTGCCAGAACCATGGACGTCTCAACATCAGCACCTGCCACTGCCACTGTCCCT   | 898           |              |         |

|    |      |  |      |
|----|------|--|------|
| QY | 882  | GGCTACACGGGAGATACTGCCAAGTGAGGTGCAGGCTGCAGTGTGTGCACGCCGGGTTCC   | 941  |
| Db | 899  | GGCTACACGGGAGATACTGCCAAGTGAGGTGCAGGCTGCAGTGTGTGCACGCCGGGTTCC   | 958  |
| QY | 942  | CGGGAGGAGAGTGCCTGTCGTCTGTGACATCGGCTACGGGGAGGCCAGTGTGCCACC      | 1001 |
| Db | 959  | CGGGAGGAGAGTGCCTGTCGTCTGTGACATCGGCTACGGGGAGGCCAGTGTGCCACC      | 1018 |
| QY | 1002 | AAGGTGCATTTTCCCTTCCACACCTGTGACCTGAGGATCGACGGAGACTGCTTCATGGTG   | 1061 |
| Db | 1019 | AAGGTGCATTTTCCCTTCCACACCTGTGACCTGAGGATCGACGGAGACTGCTTCATGGTG   | 1078 |
| QY | 1062 | TCCTTCAGAGCGACACCTATTATACAGAGCCAGGATGAAATGTACAGAGAAAGCGGGGTG   | 1121 |
| Db | 1079 | TCCTTCAGAGCGACACCTATTATACAGAGCCAGGATGAAATGTACAGAGAAAGCGGGGTG   | 1138 |
| QY | 1122 | CTGGCCCAAGATCAAGAGCCAGAAAGTGACAGACATCCTCGCCTTCTATCTGGGCCCGCCTG | 1181 |
| Db | 1139 | CTGGCCCAAGATCAAGAGCCAGAAAGTGACAGACATCCTCGCCTTCTATCTGGGCCCGCCTG | 1198 |
| QY | 1182 | GAGACCAACACAGAGGTGACTGACAGTGACTTCGAGACACAGAACTTCTGGATCGGGCTC   | 1241 |
| Db | 1199 | GAGACCAACACAGAGGTGATTGACAGTGACTTCGAGACACAGAACTTCTGGATCGGGCTC   | 1258 |
| QY | 1242 | ACCTACAAGACCGCCAAAGACTCCTTCGCTGGGCCACAGGGAGCACCAGGCCCTTCACC    | 1301 |
| Db | 1259 | ACCTACAAGACCGCCAAAGACTCCTTCGCTGGGCCACAGGGAGCACCAGGCCCTTCACC    | 1318 |
| QY | 1302 | AGTTTGTGCTTTGGCGAGCGCTGACAACACAGGG                             | 1334 |
| Db | 1319 | AGTTTGTGCTTTGGCGAGCGCTGACAACACAGGG                             | 1351 |

## RESULT 18

US-09-726-643-12  
; Sequence 12, Application US/09726643  
; Patent No. US20020028449A1

; GENERAL INFORMATION.

APPLICANT: Ruben et al

; AFFILIANT: RUBELL ET AL.  
; TITLE OF INVENTION: 26 Human secreted proteins

FILE OF INVENTION: 28  
FILE REFERENCE: P7040P7

: FIDE REFERENCE: PZ040PI  
: CURRENT APPLICATION NUMBER: US/00/736 513

; CURRENT APPLICATION NUMBER: US/08-  
; CURRENT FILING DATE: 2000-12-01

; CURRENT FILING DATE: 2000-12-01  
 ; PRIOR APPLICATION NUMBER: PCT/US00/15187

; PRIOR APPLICATION NUMBER: PCT/US  
 : PRIOR FILING DATE: 2000-06-03

; PRIORITY FILING DATE: 2000-06-02  
; PRIORITY APPLICATION NUMBER: 60/4322 735

;; PRIOR APPLICATION NUMBER: 607  
;; PRIOR FILING DATE: 1998-05-07

; PRIOR FILING DATE: 1999-08  
 : NUMBER OF SEC ID NOS: 100

; NUMBER OF SEQ ID NOS: 190  
: SOFTWARE: Patcat v. 1.0.0

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; SOFTWARE: PatentIn
; CEO ID NO 12

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; SEQ ID NO 12
; LENGTH: 1033

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; LENGTH: 19  
; TYPE: DNA

TYPE: DNA

; ORGANISM: HORTICOLA

US-09-726-643-

Query Match 54.98; Score 1029;

Best Local Similarity 99.7%; Pred. No. 0;

|               |              |    |            |    |        |    |      |
|---------------|--------------|----|------------|----|--------|----|------|
| Matches 1229; | Conservative | 0; | Mismatches | 4; | Indels | 0; | Gaps |
|---------------|--------------|----|------------|----|--------|----|------|

[illegible]

QY 102 CCTGACGGGCCCAACAGACCCATGCTGCATCCAGACCTCCCCTGGCCGGGGCATCTC 161

T01  
T02  
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T00

D<sub>b</sub> 119 CCTGACGGGCCCAACAGACCCATGCTGCATCCAGAGACCTCCCCCTGGCGGGGGCATC<sup>178</sup>

[illegible]

162 CTGGCTGTGCTCCTGGCCCTCCTTGGCACCACTGGGCAGAGGTGTGGCCACCCAGCTG

|    |      |   |      |
|----|------|---|------|
| Db | 239  | CTGCACAACCGCCCTGGCGAGCTGGGTCTACGCCCCCTTCGGCTGACATGGGAGGCTGGAC   | 356  |
| Qy | 342  | TGGAGTGACAGCTGGCCCAACTGGCTCAAGCCAGGCGACGCCCTCTGTGGAATCCCAACC    | 401  |
| Db | 359  | TGGAGTGACAGCTGGCCCAACTGGCTCAAGCCAGGCGACGCCCTCTGTGGAATCCCAACC    | 418  |
| Qy | 402  | CCGAGCCTGGGATCCGGCCCTGTGGCGCACCCCTGCAAGTGGGCTGGAAACATGCAGCTGCTG | 461  |
| Db | 419  | CCGAGCCTGGGCTCCGGCTGTGGCGCACCCCTGCAAGTGGGCTGGAAACATGCAGCTGCTG   | 478  |
| Qy | 462  | CCCGGGGCTTGGCGTCCCTTTGTGAAGTGGTCAGCCTATGTTTGCAGAGGGGCGACGG      | 521  |
| Db | 479  | CCCGGGGCTTGGCGTCCCTTTGTGAAGTGGTCAGCCTATGTTTGCAGAGGGGCGACGG      | 538  |
| Qy | 522  | TACAGCCACGGCGAGAGAGTGTGCTGCGAACGCCACCTGCAACCACTACAGCAAGCTC      | 581  |
| Db | 539  | TACAGCCACGGCGAGAGAGTGTGCTGCGAACGCCACCTGCAACCACTACAGCAAGCTC      | 598  |
| Qy | 582  | GTGTGGGCGACCTCAAGCCAGCTGGGCTGTGGCGGCGACCTGTGCTCTGCAGGCCAGACA    | 641  |
| Db | 599  | GTGTGGGCGACCTCAAGCCAGCTGGGCTGTGGCGGCGACCTGTGCTCTGCAGGCCAGGCA    | 658  |
| Qy | 642  | CGGATAGAAGCCTTTGTCTGTGCTACTCCCGCGAGGCAACTGGGAGGCTCAACGGGAG      | 701  |
| Db | 659  | CGGATAGAAGCCTTTGTCTGTGCTACTCCCGCGAGGCAACTGGGAGGCTCAACGGGAG      | 718  |
| Qy | 702  | ACAATCATCCCTCATAGAAGGCTGCTGGTGTTCGCTCTGCACAGCCAGTGTCTCAGCG      | 761  |
| Db | 719  | ACAATCATCCCTCATAGAAGGCTGCTGGTGTTCGCTCTGCACAGCCAGTGTCTCAGCG      | 778  |
| Qy | 762  | TGCTTCAAGCCCTGGGACCATGAGGGGCTCTGTGAGTCCCAGGAACTCCTTGTGCG        | 821  |
| Db | 779  | TGCTTCAAGCCCTGGGACCATGAGGGGCTCTGTGAGTCCCAGGAACTCCTTGTGCG        | 838  |
| Qy | 822  | ATGAGCTGCCAGAACCATGAGCCTCTCAACATCAGCACTGCCACTTGCACCTGTCCCT      | 881  |
| Db | 839  | ATGAGCTGCCAGAACCATGAGCCTCTCAACATCAGCACTGCCACTTGCACCTGTCCCT      | 898  |
| Qy | 882  | GGCTACAGGGCAGATCTGCCAAGTGAAGTGAGGTCAGCTGAGTGTGCAGCGCGGTTG       | 941  |
| Db | 899  | GGCTACAGGGCAGATCTGCCAAGTGAAGTGAGGTCAGCTGAGTGTGCAGCGCGGTTG       | 958  |
| Qy | 942  | CGGAGGAGGAGTGCTCGTGGTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCACC        | 1001 |
| Db | 959  | CGGAGGAGGAGTGCTCGTGGTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCACC        | 1018 |
| Qy | 1002 | AAGTGCAATTTCCCTTCCACACCTGTGACCTGAGGATCGAGGAGACTGCTTCATGTG       | 1061 |
| Db | 1019 | AAGTGCAATTTCCCTTCCACACCTGTGACCTGAGGATCGAGGAGACTGCTTCATGTG       | 1078 |
| Qy | 1062 | TCCTTCAGAGCAGACACTTATACAGAGCCAGGATGAATGTACAGAGAAAGGGGGGTG       | 1121 |
| Db | 1079 | TCCTTCAGAGCAGACACTTATACAGAGCCAGGATGAATGTACAGAGAAAGGGGGGTG       | 1138 |
| Qy | 1122 | CTGGCCAGATCAAGAGCCAGAAAGTGAGGACATCTTCGCTCTCTATCTGGGCGCGCTG      | 1181 |
| Db | 1139 | CTGGCCAGATCAAGAGCCAGAAAGTGAGGACATCTTCGCTCTCTATCTGGGCGCGCTG      | 1198 |
| Qy | 1182 | GAGACCACCAAGGCTGACTGACAGTGCAGTTCGAGACCAAGAACTTCTGGATCGGGCT      | 1241 |
| Db | 1199 | GAGACCACCAAGGCTGATTGACAGTGAATTCGAGACCAAGAACTTCTGGATCGGGCT       | 1258 |
| Qy | 1242 | ACCTACAAGCCGCAAGGACTTCCTCCGCTGGGCCACAGGGAGCACCGGCCCTTCAAC       | 1301 |
| Db | 1259 | ACCTACAAGCCGCAAGGACTTCCTCCGCTGGGCCACAGGGAGCACCGGCCCTTCAAC       | 1318 |
| Qy | 1302 | AGTTTTCCTTTTGGGAGCCTGACAAACACGGG                                | 1334 |
| Db | 1319 | AGTTTTCCTTTTGGGAGCCTGACAAACACGGG                                | 1351 |

RESULT 19  
US-09-790-264-3



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Query Match          25.9%; Score 485; DB 10; Length 690;
Best Local Similarity 100.0%; Pred. No. 1.5e-204;
Matches 485; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 604 TGGGCTGTGGGGCGGCACTGTGCTCTCAGAGCCAGACAGCGATAGAAGCTTTGTCTGTGG 663
Db 1 TGGGCTGTGGGGCGGCACTGTGCTCTCAGAGCCAGACAGCGATAGAAGCTTTGTCTGTGG 60

QY 664 CCTACTCCCGCGGAGCACTGGGAGGTCAACGGAGCAACATCATCCCTATAAGAAAG 723
Db 61 CCTACTCCCGCGGAGCACTGGGAGGTCAACGGAGCAACATCATCCCTATAAGAAAG 120

QY 724 GTCCCTGGTGTTCGCTCTGCACAGCCAGTGTCTCAGGCTGTCTTCAAAGCCTGGGACCATG 783
Db 121 GTCCCTGGTGTTCGCTCTGCACAGCCAGTGTCTCAGGCTGTCTTCAAAGCCTGGGACCATG 180

QY 784 CAGGGGGGCTGTGAGGTCCCAAGGAATCTTGTGCGATGAGCTGCGAGACCATGGAC 843
Db 181 CAGGGGGGCTGTGAGGTCCCAAGGAATCTTGTGCGATGAGCTGCGAGACCATGGAC 240

QY 844 GTCTCAACATCAGACACCTGCCACTGCCACTGTCCCTGGCTACACGGCGAGATAGTCC 903
Db 241 GTCTCAACATCAGACACCTGCCACTGTCCCTGGCTACACGGCGAGATAGTCC 300

QY 904 AAGTGAGGTGACGCTGTGCTGTGTCACGCGCGGTTCGGGAGGAGGAGTGTCTGTGGTGG 963
Db 301 AAGTGAGGTGACGCTGTGCTGTGTCACGCGCGGTTCGGGAGGAGGAGTGTCTGTGGTGG 360

QY 964 TCTGTGACATCGGTACGGGGGAGCCAGTGTGCCACCAAGGTGATTTTCCCTTCCACA 1023
Db 361 TCTGTGACATCGGTACGGGGGAGCCAGTGTGCCACCAAGGTGATTTTCCCTTCCACA 420

QY 1024 CTTGTGACCTGAGGATCGACGGAGACTGCTTCATGGTGTCTTCAGAGCGAGACACTATT 1083
Db 421 CTTGTGACCTGAGGATCGACGGAGACTGCTTCATGGTGTCTTCAGAGCGAGACACTATT 480

QY 1084 ACAGA 1088
Db 481 ACAGA 485

RESULT 21
US-09-944-413-53
; Sequence 53, Application US/09944413
; Patent No. US20020156004A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerlitsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US/09/944,413
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020156004A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020156004A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 53
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; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide probe
US-09-944-413-53

Query Match          2.4%; Score 45; DB 9; Length 45;
Best Local Similarity 100.0%; Pred. No. 1.8e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1254 GCGAAGGACTCTTCGGTGGCCACAGGGGAGCACCAGGCCTTC 1298
      |||||||
Db 1 GCGAAGGACTCTTCGGTGGCCACAGGGGAGCACCAGGCCTTC 45

RESULT 22
US-09-944-403-53
; Sequence 53, Application US/09944403
; Patent No. US20020165143A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,403
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945

; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: NO. US20020165143A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: NO. US20020165143A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 53
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide probe
US-09-944-403-53

Query Match          2.4%; Score 45; DB 9; Length 45;
Best Local Similarity 100.0%; Pred. No. 1.8e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1254 GCGAAGGACTCTTCGGTGGCCACAGGGGAGCACCAGGCCTTC 1298
      |||||||
Db 1 GCGAAGGACTCTTCGGTGGCCACAGGGGAGCACCAGGCCTTC 45

RESULT 23
US-09-944-896-53
; Sequence 53, Application US/099444896
; Patent No. US20020168715A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
```

APPLICANT: Gerritsen, Mary  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul  
APPLICANT: Grimaldi, Christopher  
APPLICANT: Gurney, Austin  
APPLICANT: Hillan, Kenneth  
APPLICANT: Kijavin, Ivar  
APPLICANT: Napier, Mary  
APPLICANT: Roy, Margaret  
APPLICANT: Tumas, Daniel  
APPLICANT: Wood, William  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P2548P1C1  
CURRENT FILING DATE: 2001-08-31  
PRIORITY APPLICATION NUMBER: US/09/944,896  
PRIORITY FILING DATE: 2001-05-25  
PRIORITY APPLICATION NUMBER: 60/069,334  
PRIORITY FILING DATE: December 11, 1997  
PRIORITY APPLICATION NUMBER: 60/069,335  
PRIORITY FILING DATE: December 11, 1997  
PRIORITY APPLICATION NUMBER: 60/069,278  
PRIORITY FILING DATE: December 11, 1997  
PRIORITY APPLICATION NUMBER: 60/069,425  
PRIORITY FILING DATE: December 12, 1997  
PRIORITY APPLICATION NUMBER: 60/069,696  
PRIORITY FILING DATE: December 16, 1997  
PRIORITY APPLICATION NUMBER: 60/069,694  
PRIORITY FILING DATE: December 16, 1997  
PRIORITY APPLICATION NUMBER: 60/069,702  
PRIORITY FILING DATE: December 16, 1997  
PRIORITY APPLICATION NUMBER: 60/069,870  
PRIORITY FILING DATE: December 17, 1997  
PRIORITY APPLICATION NUMBER: 60/069,873  
PRIORITY FILING DATE: December 17, 1997  
PRIORITY APPLICATION NUMBER: 60/068,017  
PRIORITY FILING DATE: December 18, 1997  
PRIORITY APPLICATION NUMBER: 60/070,440  
PRIORITY FILING DATE: January 5, 1998  
PRIORITY APPLICATION NUMBER: 60/074,086  
PRIORITY FILING DATE: February 9, 1998  
PRIORITY APPLICATION NUMBER: 60/074,092  
PRIORITY FILING DATE: February 9, 1998  
PRIORITY APPLICATION NUMBER: 60/075,945  
PRIORITY FILING DATE: February 25, 1998  
PRIORITY APPLICATION NUMBER: 60/112,850  
PRIORITY FILING DATE: December 16, 1998  
PRIORITY APPLICATION NUMBER: 60/113,296  
PRIORITY FILING DATE: December 22, 1998  
PRIORITY APPLICATION NUMBER: 60/146,222  
PRIORITY FILING DATE: July 28, 1999  
PRIORITY APPLICATION NUMBER: PCT/US98/19330  
PRIORITY FILING DATE: September 16, 1998  
PRIORITY APPLICATION NUMBER: PCT/US98/25108  
PRIORITY FILING DATE: December 1, 1998  
PRIORITY APPLICATION NUMBER: 09/216,021  
PRIORITY FILING DATE: December 16, 1998  
PRIORITY APPLICATION NUMBER: 09/218,517  
PRIORITY FILING DATE: December 22, 1998  
PRIORITY APPLICATION NUMBER: 09/254,311  
PRIORITY FILING DATE: March 3, 1999  
PRIORITY APPLICATION NUMBER: PCT/US99/12252  
PRIORITY FILING DATE: June 22, 1999  
PRIORITY APPLICATION NUMBER: PCT/US99/21090  
PRIORITY FILING DATE: September 15, 1999  
PRIORITY APPLICATION NUMBER: PCT/US99/28409  
PRIORITY FILING DATE: No. US20020168715A1ember 30, 1999  
PRIORITY APPLICATION NUMBER: PCT/US99/28313  
PRIORITY FILING DATE: No. US20020168715A1ember 30, 1999  
PRIORITY APPLICATION NUMBER: PCT/US99/28301  
PRIORITY FILING DATE: December 1, 1999  
PRIORITY APPLICATION NUMBER: PCT/US99/30095

PRIOR FILING DATE: December 16, 1999  
PRIORITY APPLICATION NUMBER: PCT/US00/03565  
PRIORITY FILING DATE: February 11, 2000  
PRIORITY APPLICATION NUMBER: PCT/US00/04414  
PRIORITY FILING DATE: February 22, 2000  
PRIORITY APPLICATION NUMBER: PCT/US00/05841  
PRIORITY FILING DATE: March 2, 2000  
PRIORITY APPLICATION NUMBER: PCT/US00/08439  
PRIORITY FILING DATE: March 30, 2000  
PRIORITY APPLICATION NUMBER: PCT/US00/14042  
PRIORITY FILING DATE: May 22, 2000  
PRIORITY APPLICATION NUMBER: PCT/US00/20710  
PRIORITY FILING DATE: July 28, 2000  
PRIORITY APPLICATION NUMBER: PCT/US00/32678  
PRIORITY FILING DATE: December 1, 2000  
PRIORITY APPLICATION NUMBER: PCT/US01/06520  
PRIORITY FILING DATE: February 28, 2001  
NUMBER OF SEQ ID NOS: 120  
SEQ ID NO 53  
LENGTH: 45  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthetic oligonucleotide probe  
US-09-944-896-53

Query Match 2.4%; Score 45; DB 9; Length 45;  
Best Local Similarity 100.0%; Pred. No. 1.8e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1254 GCCAAGGACTCTTCGCTGGCCACAGGGGAGCACCAGGCCTTC 1298  
|||||  
Db 1 GCCAAGGACTCTTCGCTGGCCACAGGGGAGCACCAGGCCTTC 45

RESULT 24  
US-09-944-944-53  
Sequence 53, Application US/09944944  
Patent No. US20020173463A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin  
APPLICANT: Botstein, David  
APPLICANT: Eaton, Dan  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Gerritsen, Mary  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul  
APPLICANT: Grimaldi, Christopher  
APPLICANT: Gurney, Austin  
APPLICANT: Hillan, Kenneth  
APPLICANT: Kijavin, Ivar  
APPLICANT: Napier, Mary  
APPLICANT: Roy, Margaret  
APPLICANT: Tumas, Daniel  
APPLICANT: Wood, William  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P2548P1C1  
CURRENT FILING DATE: 2001-09-26  
PRIORITY APPLICATION NUMBER: 09/866,028  
PRIORITY FILING DATE: 2001-05-25  
PRIORITY APPLICATION NUMBER: 60/067,411  
PRIORITY FILING DATE: December 3, 1997  
PRIORITY APPLICATION NUMBER: 60/069,334  
PRIORITY FILING DATE: December 11, 1997  
PRIORITY APPLICATION NUMBER: 60/069,335  
PRIORITY FILING DATE: December 11, 1997  
PRIORITY APPLICATION NUMBER: 60/069,278  
PRIORITY FILING DATE: December 11, 1997  
PRIORITY APPLICATION NUMBER: 60/069,425  
PRIORITY FILING DATE: December 12, 1997

;; PRIOR APPLICATION NUMBER: 60/069,696  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,694  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,702  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,870  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,873  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/068,017  
;; PRIOR FILING DATE: December 18, 1997  
;; PRIOR APPLICATION NUMBER: 60/070,440  
;; PRIOR FILING DATE: January 5, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,086  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,092  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/075,945  
;; PRIOR FILING DATE: February 25, 1998  
;; PRIOR APPLICATION NUMBER: 60/112,850  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 60/113,286  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 60/146,222  
;; PRIOR FILING DATE: July 28, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US98/19330  
;; PRIOR FILING DATE: September 16, 1998  
;; PRIOR APPLICATION NUMBER: PCT/US98/25108  
;; PRIOR FILING DATE: December 1, 1998  
;; PRIOR APPLICATION NUMBER: 09/216,021  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 09/218,517  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 09/254,311  
;; PRIOR FILING DATE: March 3, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/12252  
;; PRIOR FILING DATE: June 22, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/21090  
;; PRIOR FILING DATE: September 15, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28409  
;; PRIOR FILING DATE: No. US20020173463A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28313  
;; PRIOR FILING DATE: No. US20020173463A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28301  
;; PRIOR FILING DATE: December 1, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: December 16, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US00/093565  
;; PRIOR FILING DATE: February 11, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: February 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/05841  
;; PRIOR FILING DATE: March 2, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/08439  
;; PRIOR FILING DATE: March 30, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/14042  
;; PRIOR FILING DATE: May 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/20710  
;; PRIOR FILING DATE: July 28, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/32678  
;; PRIOR FILING DATE: December 1, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/06520  
;; PRIOR FILING DATE: February 28, 2001  
;; NUMBER OF SEQ ID NOS: 120  
;; SEQ ID NO 53  
;; LENGTH: 45  
;; TYPE: DNA  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Synthetic oligonucleotide probe  
US-09-944-896-49

Query Match 2.4%; Score 45; DB 9; Length 45;  
Best Local Similarity 100.0%; Pred. No. 1.8e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1254 GCCAAGGACTCCTTCGCTGGGCACAGGGGAGGAGCACCAGGCCTTC 1298  
Db 1 GCCAAGGACTCCTTCGCTGGGCACAGGGGAGGAGCACCAGGCCTTC 45  
RESULT 25  
US-09-866-028-53  
; Sequence 53, Application US/09866028  
; Patent No. US20020058309A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kijavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/866,028  
; CURRENT FILING DATE: 2001-05-25  
; Prior application data removed - consult PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 120  
; SEQ ID NO 53  
; LENGTH: 45  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic oligonucleotide probe  
US-09-866-028-53  
Query Match 2.4%; Score 45; DB 10; Length 45;  
Best Local Similarity 100.0%; Pred. No. 1.8e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1254 GCCAAGGACTCCTTCGCTGGGCACAGGGGAGGAGCACCAGGCCTTC 1298  
Db 1 GCCAAGGACTCCTTCGCTGGGCACAGGGGAGGAGCACCAGGCCTTC 45  
RESULT 26  
US-09-944-449-53  
; Sequence 53, Application US/09944449  
; Patent No. US20020102647A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kijavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret

; APPLICANT: Tumas,Daniel  
; APPLICANT: Wood,William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/944,449  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998  
; PRIOR APPLICATION NUMBER: 60/074,086  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/074,092  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/075,945  
; PRIOR FILING DATE: February 25, 1998  
; PRIOR APPLICATION NUMBER: 60/112,850  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 60/113,296  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 60/146,222  
; PRIOR FILING DATE: July 28, 1999  
; PRIOR APPLICATION NUMBER: PCT/US98/19330  
; PRIOR FILING DATE: September 16, 1998  
; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: December 1, 1998  
; PRIOR APPLICATION NUMBER: 09/216,021  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 09/218,517  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020102847A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: No. US20020102647A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December 1, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: December 16, 1999  
; PRIOR APPLICATION NUMBER: PCT/US00/03565  
; PRIOR FILING DATE: February 11, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: February 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: March 2, 2000

; PRIOR APPLICATION NUMBER: PCT/US00/08439  
; PRIOR FILING DATE: March 30, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/14042  
; PRIOR FILING DATE: May 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/20710  
; PRIOR FILING DATE: July 28, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/32678  
; PRIOR FILING DATE: December 1, 2000  
; PRIOR APPLICATION NUMBER: PCT/US01/06520  
; PRIOR FILING DATE: February 28, 2001  
; NUMBER OF SEQ ID NOS: 120  
; SEQ ID NO 53  
; LENGTH: 45  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic oligonucleotide probe  
US-09-944-449-53  
  
Query Match 2.4%; Score 45; DB 10; Length 45;  
Best Local Similarity 100.0%; Pred. No. 1.8e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1254 GCCAAGGACTCTTCGCTGGCCACAGGGGAGCACCAGGCCTTC 1298  
|||||  
Db 1 GCCAAGGACTCTTCGCTGGCCACAGGGGAGCACCAGGCCTTC 45  
  
RESULT 27  
US-09-944-457-53  
; Sequence 53, Application US/09944457  
; Patent No. US20020110859A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein,David  
; APPLICANT: Eaton,Dan  
; APPLICANT: Ferrara,Napoleone  
; APPLICANT: Filvaroff,Ellen  
; APPLICANT: Gerritsen,Mary  
; APPLICANT: Goddard,Audrey  
; APPLICANT: Godowski,Paul  
; APPLICANT: Grimaldi,Christopher  
; APPLICANT: Gurney,Austin  
; APPLICANT: Hillan,Kenneth  
; APPLICANT: Kljavin,Ivar  
; APPLICANT: Napier,Mary  
; APPLICANT: Roy,Margaret  
; APPLICANT: Tumas,Daniel  
; APPLICANT: Wood,William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/944,457  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870



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; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 29, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020110859A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020110859A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 53
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Synthetic oligonucleotide probe
; US-09-944-457-53

Query Match      2.4%; Score 45; DB 10; Length 45;
Best Local Similarity 100.0%; Pred. No. 1.8e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1254 GCCAAGACTCTTCGCTGGGGCCACAGGGGAGCACACAGGCCCTTC 1298
      |||||||
Db 1 GCCAAGACTCTTCGCTGGGGCCACAGGGGAGCACACAGGCCCTTC 45

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## RESULT 28

US-09-945-587-53

; Sequence 53, Application US/09945587

; Patent No. US20020127643A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin

; APPLICANT: Botstein, David

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gerritsen, Mary

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul

; APPLICANT: Grimaldi, Christopher

; APPLICANT: Gurney, Austin

; APPLICANT: Hillan, Kenneth

; APPLICANT: Kljavin, Ivar

; APPLICANT: Napier, Mary

; APPLICANT: Roy, Margaret

; APPLICANT: Tumas, Daniel

; APPLICANT: Wood, William

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548P1C1

; CURRENT APPLICATION NUMBER: US/09/945,587

; CURRENT FILING DATE: 2001-09-26

; PRIOR APPLICATION NUMBER: 09/866,028

; PRIOR FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: 60/067,411

; PRIOR FILING DATE: December 3, 1997

; PRIOR APPLICATION NUMBER: 60/069,334

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,335

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,278

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,425

; PRIOR FILING DATE: December 12, 1997

; PRIOR APPLICATION NUMBER: 60/069,696

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,694

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,702

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,870

; PRIOR FILING DATE: December 17, 1997

; PRIOR APPLICATION NUMBER: 60/069,873

; PRIOR FILING DATE: December 17, 1997

; PRIOR APPLICATION NUMBER: 60/068,017

; PRIOR FILING DATE: December 18, 1997

; PRIOR APPLICATION NUMBER: 60/070,440

; PRIOR FILING DATE: January 5, 1998

; PRIOR APPLICATION NUMBER: 60/074,086

; PRIOR FILING DATE: February 9, 1998

; PRIOR APPLICATION NUMBER: 60/074,092

; PRIOR FILING DATE: February 9, 1998

; PRIOR APPLICATION NUMBER: 60/075,945

; PRIOR FILING DATE: February 25, 1998

; PRIOR APPLICATION NUMBER: 60/112,850

; PRIOR FILING DATE: December 16, 1998

; PRIOR APPLICATION NUMBER: 60/113,296

; PRIOR FILING DATE: December 22, 1998

; PRIOR APPLICATION NUMBER: 60/146,222

; PRIOR FILING DATE: July 28, 1999

; PRIOR APPLICATION NUMBER: PCT/US98/19330

; PRIOR FILING DATE: September 16, 1998

; PRIOR APPLICATION NUMBER: PCT/US98/25108

; PRIOR FILING DATE: December 1, 1998

; PRIOR APPLICATION NUMBER: 09/216,021

; PRIOR FILING DATE: December 16, 1998

; PRIOR APPLICATION NUMBER: 09/218,517

;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 09/254,311  
;; PRIOR FILING DATE: March 3, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/12252  
;; PRIOR FILING DATE: June 22, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/21090  
;; PRIOR FILING DATE: September 15, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28409  
;; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28313  
;; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28301  
;; PRIOR FILING DATE: December 1, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: December 16, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US00/03565  
;; PRIOR FILING DATE: February 11, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: February 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/05841  
;; PRIOR FILING DATE: March 2, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/08439  
;; PRIOR FILING DATE: March 30, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/14042  
;; PRIOR FILING DATE: May 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/20710  
;; PRIOR FILING DATE: July 28, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/32678  
;; PRIOR FILING DATE: December 1, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/06520  
;; PRIOR FILING DATE: February 28, 2001  
;; NUMBER OF SEQ ID NOS: 120  
;; SEQ ID NO 53  
;; LENGTH: 45  
;; TYPE: DNA  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Synthetic oligonucleotide probe

US-09-945-587-53

Query Match 2.4%; Score 45; DB 10; Length 45;  
Best Local Similarity 100.0%; Pred. No. 1.8e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1254 GCCAAGACTCCTTCCTGGCCACAGGGGAGGACACCGGCTTC 1298  
|||||  
Db 1 GCCAAGACTCCTTCCTGGCCACAGGGGAGGACACCGGCTTC 45

## RESULT 29

US-09-945-015-53  
;; Sequence 53, Application US/09945015  
;; Patent No. US20020132768A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Baker, Kevin  
;; APPLICANT: Botstein, David  
;; APPLICANT: Eaton, Dan  
;; APPLICANT: Ferrara, Napoleone  
;; APPLICANT: Filvaroff, Ellen  
;; APPLICANT: Gerritsen, Mary  
;; APPLICANT: Goddard, Audrey  
;; APPLICANT: Godowski, Paul  
;; APPLICANT: Grimaldi, Christopher  
;; APPLICANT: Gurney, Austin  
;; APPLICANT: Hillan, Kenneth  
;; APPLICANT: Kljavin, Ivar  
;; APPLICANT: Napier, Mary  
;; APPLICANT: Roy, Margaret  
;; APPLICANT: Tumas, Daniel  
;; APPLICANT: Wood, William  
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
;; ACIDS ENCODING THE SAME  
;; FILE REFERENCE: P2548P1C1

;; CURRENT APPLICATION NUMBER: US/09/945,015  
;; CURRENT FILING DATE: 2001-09-26  
;; PRIOR FILING DATE: 09/866,028  
;; PRIOR APPLICATION NUMBER: 2001-05-25  
;; PRIOR FILING DATE: December 3, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,334  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,335  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,278  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,425  
;; PRIOR FILING DATE: December 12, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,696  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,694  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,702  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,870  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,873  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/068,017  
;; PRIOR FILING DATE: December 18, 1997  
;; PRIOR APPLICATION NUMBER: 60/070,440  
;; PRIOR FILING DATE: January 5, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,086  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,092  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/075,945  
;; PRIOR FILING DATE: February 25, 1998  
;; PRIOR APPLICATION NUMBER: 60/112,850  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 60/113,296  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 60/146,222  
;; PRIOR FILING DATE: July 28, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US98/19330  
;; PRIOR FILING DATE: September 16, 1998  
;; PRIOR APPLICATION NUMBER: PCT/US98/25108  
;; PRIOR FILING DATE: December 1, 1998  
;; PRIOR APPLICATION NUMBER: 09/216,021  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 09/218,517  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 09/254,311  
;; PRIOR FILING DATE: March 3, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/12252  
;; PRIOR FILING DATE: June 22, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/21090  
;; PRIOR FILING DATE: September 15, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28409  
;; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28313  
;; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28301  
;; PRIOR FILING DATE: December 1, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: December 16, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US00/03565  
;; PRIOR FILING DATE: February 11, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: February 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/05841  
;; PRIOR FILING DATE: March 2, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/08439  
;; PRIOR FILING DATE: March 30, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/14042  
;; PRIOR FILING DATE: May 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/20710

;; PRIOR FILING DATE: July 28, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/32678  
;; PRIOR FILING DATE: December 1, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/06520  
;; PRIOR FILING DATE: February 28, 2001  
;; NUMBER OF SEQ ID NOS: 120  
;; SEQ ID NO 53  
;; LENGTH: 45  
;; TYPE: DNA  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Synthetic oligonucleotide probe  
US-09-945-015-53

Query Match 2.4%; Score 45; DB 10; Length 45;  
Best Local Similarity 100.0%; Pred. No. 1.8e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1254 GCCAAGGACTCTTCCTCCGCTGGCCACAGGGGAGCACCAGGCCTTC 1298  
|||||  
Db 1 GCCAAGGACTCTTCCTCCGCTGGCCACAGGGGAGCACCAGGCCTTC 45

## RESULT 30

US-09-944-396-53  
; Sequence 53, Application US/09944396  
; Patent No. US20020132981A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kijavins, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548PICI  
; CURRENT APPLICATION NUMBER: US/09/944,396  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997

;; PRIOR APPLICATION NUMBER: 60/070,440  
;; PRIOR FILING DATE: January 5, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,086  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,092  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/075,945  
;; PRIOR FILING DATE: February 25, 1998  
;; PRIOR APPLICATION NUMBER: 60/112,850  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 60/113,296  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 60/146,222  
;; PRIOR FILING DATE: July 28, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US98/19330  
;; PRIOR FILING DATE: September 16, 1998  
;; PRIOR APPLICATION NUMBER: PCT/US98/25108  
;; PRIOR FILING DATE: December 1, 1998  
;; PRIOR APPLICATION NUMBER: 09/216,021  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 09/218,517  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 09/254,311  
;; PRIOR FILING DATE: March 3, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/12252  
;; PRIOR FILING DATE: June 22, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/21090  
;; PRIOR FILING DATE: September 15, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28409  
;; PRIOR FILING DATE: No. US20020132981A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28313  
;; PRIOR FILING DATE: No. US20020132981A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28301  
;; PRIOR FILING DATE: December 1, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: December 16, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US00/03565  
;; PRIOR FILING DATE: February 11, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: February 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/05841  
;; PRIOR FILING DATE: March 2, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/08439  
;; PRIOR FILING DATE: March 30, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/14042  
;; PRIOR FILING DATE: May 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/20710  
;; PRIOR FILING DATE: July 28, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/32678  
;; PRIOR FILING DATE: December 1, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/06520  
;; PRIOR FILING DATE: February 28, 2001  
;; NUMBER OF SEQ ID NOS: 120  
;; SEQ ID NO 53  
;; LENGTH: 45  
;; TYPE: DNA  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Synthetic oligonucleotide probe  
US-09-944-396-53

Query Match 2.4%; Score 45; DB 10; Length 45;  
Best Local Similarity 100.0%; Pred. No. 1.8e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1254 GCCAAGGACTCTTCCTCCGCTGGCCACAGGGGAGCACCAGGCCTTC 1298  
|||||  
Db 1 GCCAAGGACTCTTCCTCCGCTGGCCACAGGGGAGCACCAGGCCTTC 45

## RESULT 31

US-09-944-097-53  
; Sequence 53, Application US/09944097

; Patent No. US20020133675A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kijavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; TITLE OF INVENTION: ACIDS ENCODING THE SAME  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/944,097  
; CURRENT FILING DATE: 2001-08-31  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998  
; PRIOR APPLICATION NUMBER: 60/074,086  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/074,092  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/075,945  
; PRIOR FILING DATE: February 25, 1998  
; PRIOR APPLICATION NUMBER: 60/112,850  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 60/113,295  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 60/146,222  
; PRIOR FILING DATE: July 28, 1999  
; PRIOR APPLICATION NUMBER: PCT/US98/19330  
; PRIOR FILING DATE: September 16, 1998  
; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: December 1, 1998  
; PRIOR APPLICATION NUMBER: 09/216,021  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 09/218,517  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999

; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020133675A1 September 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: No. US20020133675A1 September 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December 1, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: December 16, 1999  
; PRIOR APPLICATION NUMBER: PCT/US00/03565  
; PRIOR FILING DATE: February 11, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: February 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: March 2, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/08439  
; PRIOR FILING DATE: March 30, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/14042  
; PRIOR FILING DATE: May 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/20710  
; PRIOR FILING DATE: July 28, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/32678  
; PRIOR FILING DATE: December 1, 2000  
; PRIOR APPLICATION NUMBER: PCT/US01/06520  
; PRIOR FILING DATE: February 28, 2001  
; NUMBER OF SEQ ID NOS: 120  
; SEQ ID NO 53  
; LENGTH: 45  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic oligonucleotide probe  
US-09-944-097-53

Query Match 2.4%; Score 45; DB 10; Length 45;  
Best Local Similarity 100.0%; Pred. No. 1.8e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1254 GCCAAGGACTCTTCGCTGGGCCACAGGGAGCACCAGGCTTC 1298  
|||||  
Db 1 GCCAAGGACTCTTCGCTGGGCCACAGGGAGCACCAGGCTTC 45

RESULT 32  
US-09-944-432-53  
; Sequence 53, Application US/09944432  
; Patent No. US20020142419A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kijavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; TITLE OF INVENTION: ACIDS ENCODING THE SAME  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/944,432  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334

```

; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide probe
US-09-944-432-53

Query Match          2.4%; Score 45; DB 10; Length 45;
Best Local Similarity 100.0%; Pred. No. 1.8e-10;
Matches 45; Conservative 0; Mismatches 0; Indels

QY 1254 GCCAAGACTCCTCGCTGGCGGCACAGGGAGCACCAGGCGCTTC 1298
      |||||
Db 1 GCCAAGACTCCTCGCTGGCGGCACAGGGAGCACCAGGCGCTTC 45

RESULT 33
US-09-943-762-53
; Sequence 53, Application US/09943762
; Patent No. US20020142958A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavini, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548PIC1
; CURRENT APPLICATION NUMBER: US/09/943.762
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945

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; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 60/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/28313
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 53
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide probe
US-09-943-762-53

Query Match          2.4%; Score 45; DB 10; Length 45;
Best Local Similarity 100.0%; Pred. No. 1.8e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1254 GCCAAGGACTCTTCGGCTGGGCCACAGGGAGCACCAGGCCCTTC 1298
      |||||||||||||||||||||||||||||||||||||||||||
Db 1 GCCAAGGACTCTTCGGCTGGGCCACAGGGAGCACCAGGCCCTTC 45

RESULT 34
US-09-944-654-53
; Sequence 53, Application US/09944654
; Patent No. US20020142959A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,654
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
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;; PRIOR FILING DATE: December 1, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: December 16, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US00/03565  
;; PRIOR FILING DATE: February 11, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: February 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/05841  
;; PRIOR FILING DATE: March 2, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/08439  
;; PRIOR FILING DATE: March 30, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/14042  
;; PRIOR FILING DATE: May 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/20710  
;; PRIOR FILING DATE: July 28, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/32678  
;; PRIOR FILING DATE: December 1, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/06520  
;; PRIOR FILING DATE: February 28, 2001  
;; NUMBER OF SEQ ID NOS: 120  
;; SEQ ID NO 53  
;; LENGTH: 45  
;; TYPE: DNA  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Synthetic oligonucleotide probe

US-09-944-654-53

Query Match 2.4%; Score 45; DB 10; Length 45;  
Best Local Similarity 100.0%; Pred. No. 1.8e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1254 GCCAAGACTCTTCCGCTGGCCACAGGCGCAGGCGCTTC 1298  
Db 1 GCCAAGACTCTTCCGCTGGCCACAGGCGCAGGCGCTTC 45

## RESULT 35

US-09-943-851A-53  
; Sequence 53, Application US/09943851A  
; Patent No. US20020150976A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kijavini, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tomas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548F1C1  
; CURRENT APPLICATION NUMBER: US/09/943,851A  
; CURRENT FILING DATE: 2001-08-30  
; PRIOR APPLICATION NUMBER: US/09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997

;; PRIOR APPLICATION NUMBER: 60/069,425  
;; PRIOR FILING DATE: December 12, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,696  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,694  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,702  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,870  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,873  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/068,017  
;; PRIOR FILING DATE: December 18, 1997  
;; PRIOR APPLICATION NUMBER: 60/070,440  
;; PRIOR FILING DATE: January 5, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,086  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,092  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/075,945  
;; PRIOR FILING DATE: February 25, 1998  
;; PRIOR APPLICATION NUMBER: 60/112,850  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 60/113,296  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 60/146,222  
;; PRIOR FILING DATE: July 28, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US98/19330  
;; PRIOR FILING DATE: September 16, 1998  
;; PRIOR APPLICATION NUMBER: PCT/US98/25108  
;; PRIOR FILING DATE: December 1, 1998  
;; PRIOR APPLICATION NUMBER: 09/216,021  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 09/218,517  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 09/254,311  
;; PRIOR FILING DATE: March 3, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/12252  
;; PRIOR FILING DATE: June 22, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/21090  
;; PRIOR FILING DATE: September 15, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28409  
;; PRIOR FILING DATE: NO. US20020150976A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28313  
;; PRIOR FILING DATE: NO. US20020150976A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28301  
;; PRIOR FILING DATE: December 1, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: December 16, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US00/03565  
;; PRIOR FILING DATE: February 11, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: February 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/05841  
;; PRIOR FILING DATE: March 2, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/08439  
;; PRIOR FILING DATE: March 30, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/14042  
;; PRIOR FILING DATE: May 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/20710  
;; PRIOR FILING DATE: July 28, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/32678  
;; PRIOR FILING DATE: December 1, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/06520  
;; PRIOR FILING DATE: February 28, 2001  
;; NUMBER OF SEQ ID NOS: 120  
;; SEQ ID NO 53  
;; LENGTH: 45  
;; TYPE: DNA  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Synthetic oligonucleotide probe

US-09-943-851A-53

Query Match 2.4%; Score 45; DB 10; Length 45;  
Best Local Similarity 100.0%; Pred. No. 1.8e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1254 GCCAAGACTCCTTCGCTGGCCACAGGGGAGCACCAGGCCTTC 1298  
|||||  
Db 1 GCCAAGACTCCTTCGCTGGCCACAGGGGAGCACCAGGCCTTC 45

RESULT 36

US-09-790-264-5/c  
; Sequence 5, Application US/09790264  
; Patent No. US20020028508A1  
; GENERAL INFORMATION:  
; APPLICANT: Holtzman, Douglas A.  
; APPLICANT: Goodearl, Andrew D.J.  
; APPLICANT: McCarthy, Sean A.  
; TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING  
; TITLE OF INVENTION: PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER  
; TITLE OF INVENTION: US  
; FILE REFERENCE: 07334-322001  
; CURRENT APPLICATION NUMBER: US/09/790,264  
; CURRENT FILING DATE: 2001-02-21  
; PRIOR APPLICATION NUMBER: US 09/065,661  
; PRIOR FILING DATE: 1998-04-23  
; PRIOR APPLICATION NUMBER: US 09/298,531  
; PRIOR FILING DATE: 1999-04-23  
; PRIOR APPLICATION NUMBER: US 09/065,363  
; PRIOR FILING DATE: 1998-04-23  
; PRIOR APPLICATION NUMBER: US 09/337,930  
; PRIOR FILING DATE: 1999-06-22  
; PRIOR APPLICATION NUMBER: US 09/102,705  
; PRIOR FILING DATE: 1998-06-22  
; PRIOR APPLICATION NUMBER: US 09/363,630  
; PRIOR FILING DATE: 1999-07-29  
; PRIOR APPLICATION NUMBER: US 09/124,538  
; PRIOR FILING DATE: 1998-07-29  
; NUMBER OF SEQ ID NOS: 68  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 30  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: oligonucleotide for PCR  
US-09-790-264-5

Query Match 1.6%; Score 30; DB 10; Length 30;  
Best Local Similarity 100.0%; Pred. No. 0.00076;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 108 GGCCCAACAGACCCATGCTGCATCCAGAG 137  
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Db 30 GGCCCAACAGACCCATGCTGCATCCAGAG 1

RESULT 37

US-09-944-413-103/c  
; Sequence 103, Application US/09944413  
; Patent No. US20020156004A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin

; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kljavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; TITLE OF INVENTION: ACIDS ENCODING THE SAME  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/944,413  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998  
; PRIOR APPLICATION NUMBER: 60/074,086  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/074,092  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/075,945  
; PRIOR FILING DATE: February 25, 1998  
; PRIOR APPLICATION NUMBER: 60/112,850  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 60/113,296  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 60/146,222  
; PRIOR FILING DATE: July 28, 1999  
; PRIOR APPLICATION NUMBER: PCT/US98/19330  
; PRIOR FILING DATE: September 16, 1998  
; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: December 1, 1998  
; PRIOR APPLICATION NUMBER: 09/216,021  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 09/218,517  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020156004A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: No. US20020156004A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December 1, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: December 16, 1999  
; PRIOR APPLICATION NUMBER: PCT/US00/03565  
; PRIOR FILING DATE: February 11, 2000



;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: February 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/05841  
;; PRIOR FILING DATE: March 2, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/08439  
;; PRIOR FILING DATE: March 30, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/14042  
;; PRIOR FILING DATE: May 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/20710  
;; PRIOR FILING DATE: July 28, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/32678  
;; PRIOR FILING DATE: December 1, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/06520  
;; PRIOR FILING DATE: February 28, 2001  
;; NUMBER OF SEQ ID NOS: 120  
;; SEQ ID NO 103  
;; LENGTH: 27  
;; TYPE: DNA  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Synthetic oligonucleotide probe  
US-09-944-413-103

Query Match 1.4%; Score 27; DB 9; Length 27;  
Best Local Similarity 100.0%; Pred. No. 0.016;  
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1714 TGGGAAGATGGGCTCAATTAGATGCG 1740  
|||||  
Db 27 TGGGAAGATGGGCTCAATTAGATGCG 1

## RESULT 38

US-09-944-403-103/c  
;; Sequence 103, Application US/09944403  
;; Patent No. US20020165143A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Baker, Kevin  
;; APPLICANT: Botstein, David  
;; APPLICANT: Eaton, Dan  
;; APPLICANT: Ferrara, Napoleone  
;; APPLICANT: Filvaroff, Ellen  
;; APPLICANT: Gerritsen, Mary  
;; APPLICANT: Goddard, Audrey  
;; APPLICANT: Godowski, Paul  
;; APPLICANT: Grimaldi, Christopher  
;; APPLICANT: Gurney, Austin  
;; APPLICANT: Hillan, Kenneth  
;; APPLICANT: Kljavin, Ivar  
;; APPLICANT: Napier, Mary  
;; APPLICANT: Roy, Margaret  
;; APPLICANT: Tamas, Daniel  
;; APPLICANT: Wood, William  
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
;; FILE REFERENCE: P2548P1C1  
;; CURRENT APPLICATION NUMBER: US/09/944, 403  
;; CURRENT FILING DATE: 2001-09-26  
;; PRIOR APPLICATION NUMBER: 09/866, 028  
;; PRIOR FILING DATE: 2001-05-25  
;; PRIOR APPLICATION NUMBER: 60/067, 411  
;; PRIOR FILING DATE: December 3, 1997  
;; PRIOR APPLICATION NUMBER: 60/069, 334  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069, 335  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069, 278  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069, 425  
;; PRIOR FILING DATE: December 12, 1997  
;; PRIOR APPLICATION NUMBER: 60/069, 696  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069, 694

;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069, 702  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069, 870  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/069, 873  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/068, 017  
;; PRIOR FILING DATE: December 18, 1997  
;; PRIOR APPLICATION NUMBER: 60/070, 440  
;; PRIOR FILING DATE: January 5, 1998  
;; PRIOR APPLICATION NUMBER: 60/074, 086  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/074, 092  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/075, 945  
;; PRIOR FILING DATE: February 25, 1998  
;; PRIOR APPLICATION NUMBER: 60/112, 850  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 60/113, 296  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 60/146, 222  
;; PRIOR FILING DATE: July 28, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US98/19330  
;; PRIOR FILING DATE: September 16, 1998  
;; PRIOR APPLICATION NUMBER: PCT/US98/25108  
;; PRIOR FILING DATE: December 1, 1998  
;; PRIOR APPLICATION NUMBER: 09/216, 021  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 09/218, 517  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 09/254, 311  
;; PRIOR FILING DATE: March 3, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/12252  
;; PRIOR FILING DATE: June 22, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/21090  
;; PRIOR FILING DATE: September 15, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28409  
;; PRIOR FILING DATE: No. US20020165143A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28313  
;; PRIOR FILING DATE: No. US20020165143A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28301  
;; PRIOR FILING DATE: December 1, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: December 16, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US00/03565  
;; PRIOR FILING DATE: February 11, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: February 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/05841  
;; PRIOR FILING DATE: March 2, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/08439  
;; PRIOR FILING DATE: March 30, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/14042  
;; PRIOR FILING DATE: May 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/20710  
;; PRIOR FILING DATE: July 28, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/32678  
;; PRIOR FILING DATE: December 1, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/06520  
;; PRIOR FILING DATE: February 28, 2001  
;; NUMBER OF SEQ ID NOS: 120  
;; SEQ ID NO 103  
;; LENGTH: 27  
;; TYPE: DNA  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Synthetic oligonucleotide probe  
US-09-944-403-103

Query Match 1.4%; Score 27; DB 9; Length 27;  
Best Local Similarity 100.0%; Pred. No. 0.016;  
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1714 TGGGAAGATGGGCTTCAATTAGATGGC 1740  
|||||  
Db 27 TGGGAAGATGGGCTTCAATTAGATGGC 1

## RESULT 39

US-09-944-896-103/c  
; Sequence 103, Application US/09944896  
; Patent No. US20020168715A1

## GENERAL INFORMATION:

; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kijavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE REFERENCE: P2548P1C1

; CURRENT APPLICATION NUMBER: US/09/944,896  
; CURRENT FILING DATE: 2001-08-31

; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997

; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997

; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997

; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997

; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998

; PRIOR APPLICATION NUMBER: 60/074,086  
; PRIOR FILING DATE: February 9, 1998

; PRIOR APPLICATION NUMBER: 60/074,092  
; PRIOR FILING DATE: February 9, 1998

; PRIOR APPLICATION NUMBER: 60/075,945  
; PRIOR FILING DATE: February 25, 1998

; PRIOR APPLICATION NUMBER: 60/112,850  
; PRIOR FILING DATE: December 16, 1998

; PRIOR APPLICATION NUMBER: 60/113,296  
; PRIOR FILING DATE: December 22, 1998

; PRIOR APPLICATION NUMBER: 60/146,222  
; PRIOR FILING DATE: July 28, 1999

; PRIOR APPLICATION NUMBER: PCT/US98/19330  
; PRIOR FILING DATE: September 16, 1998

; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: December 1, 1998

; PRIOR APPLICATION NUMBER: 09/216,021

; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 09/218,517  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020168715A1  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: No. US20020168715A1  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December 1, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: December 16, 1999  
; PRIOR APPLICATION NUMBER: PCT/US00/03565  
; PRIOR FILING DATE: February 11, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: February 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: March 2, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/08439  
; PRIOR FILING DATE: March 30, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/14042  
; PRIOR FILING DATE: May 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/20710  
; PRIOR FILING DATE: July 28, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/32678  
; PRIOR FILING DATE: December 1, 2000  
; PRIOR APPLICATION NUMBER: PCT/US01/06520  
; PRIOR FILING DATE: February 28, 2001  
; NUMBER OF SEQ ID NOS: 120  
; SEQ ID NO 103  
; LENGTH: 27  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic oligonucleotide probe  
US-09-944-896-103

Query Match 1.4%; Score 27; DB 9; Length 27;  
Best Local Similarity 100.0%; Pred. No. 0.016;  
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1714 TGGGAAGATGGGCTTCAATTAGATGGC 1740

Db 27 TGGGAAGATGGGCTTCAATTAGATGGC 1

## RESULT 40

US-09-944-896-103/c

; Sequence 103, Application US/09944896

; Patent No. US20020173463A1

## GENERAL INFORMATION:

; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kijavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

```

; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548PIC1
; CURRENT APPLICATION NUMBER: US/09/944,944
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020173463A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020173463A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042

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; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 103
; LENGTH: 27
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide probe
US-09-944-944-103

Query Match      1.4%; Score 27; DB 9; Length 27;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1714 TGGGAGAGATGGGCTTCAATTAGATGGC 1740
Db 27 TGGGAGAGATGGGCTTCAATTAGATGGC 1

RESULT 41
US-09-866-028-103/C
; Sequence 103, Application US/098666028
; Patent No. US20020058309A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavini, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548PIC1
; CURRENT APPLICATION NUMBER: US/09/866,028
; CURRENT FILING DATE: 2001-05-25
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 103
; LENGTH: 27
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide probe
US-09-866-028-103

Query Match      1.4%; Score 27; DB 10; Length 27;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1714 TGGGAGAGATGGGCTTCAATTAGATGGC 1740
Db 27 TGGGAGAGATGGGCTTCAATTAGATGGC 1

RESULT 42
US-09-944-449-103/c
; Sequence 103, Application US/09944449

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Patent No. US20020102647A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kijavini, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548PIC1  
; CURRENT APPLICATION NUMBER: US/09/944,449  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,695  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998  
; PRIOR APPLICATION NUMBER: 60/074,086  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/074,092  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/075,945  
; PRIOR FILING DATE: February 25, 1998  
; PRIOR APPLICATION NUMBER: 60/112,850  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 60/113,296  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 60/146,222  
; PRIOR FILING DATE: July 28, 1999  
; PRIOR APPLICATION NUMBER: PCT/US98/19330  
; PRIOR FILING DATE: September 16, 1998  
; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: December 1, 1998  
; PRIOR APPLICATION NUMBER: 09/216,021  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 09/218,517  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999

; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020102647A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: No. US20020102647A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December 1, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: December 16, 1999  
; PRIOR APPLICATION NUMBER: PCT/US00/03565  
; PRIOR FILING DATE: February 11, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: February 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: March 2, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/08439  
; PRIOR FILING DATE: March 30, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/14042  
; PRIOR FILING DATE: May 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/20710  
; PRIOR FILING DATE: July 28, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/32678  
; PRIOR FILING DATE: December 1, 2000  
; PRIOR APPLICATION NUMBER: PCT/US01/06520  
; PRIOR FILING DATE: February 28, 2001  
; NUMBER OF SEQ ID NOS: 120  
; SEQ ID NO 103  
; LENGTH: 27  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic oligonucleotide probe  
US-09-944-449-103  
  
Query Match 1.4%; Score 27; DB 10; Length 27;  
Best Local Similarity 100.0%; Pred. No. 0.016;  
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1714 TGGGAAGATGGCTTCAATTAGATGGC 1740  
Db 27 TGGGAAGATGGCTTCAATTAGATGGC 1  
  
RESULT 43  
US-09-944-457-103/c  
; Sequence 103, Application US/09944457  
; Patent No. US20020110859A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kijavini, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548PIC1  
; CURRENT APPLICATION NUMBER: US/09/944,457  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411

;; PRIOR FILING DATE: December 3, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,334  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,335  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,278  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,425  
;; PRIOR FILING DATE: December 12, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,696  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,694  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,702  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,870  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,873  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/068,017  
;; PRIOR FILING DATE: December 18, 1997  
;; PRIOR APPLICATION NUMBER: 60/070,440  
;; PRIOR FILING DATE: January 5, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,086  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,092  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/075,945  
;; PRIOR FILING DATE: February 25, 1998  
;; PRIOR APPLICATION NUMBER: 60/112,850  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 60/113,296  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 60/146,222  
;; PRIOR FILING DATE: July 28, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US98/19330  
;; PRIOR FILING DATE: September 16, 1998  
;; PRIOR APPLICATION NUMBER: PCT/US98/25108  
;; PRIOR FILING DATE: December 1, 1998  
;; PRIOR APPLICATION NUMBER: 09/216,021  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 09/218,517  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 09/254,311  
;; PRIOR FILING DATE: March 3, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/12252  
;; PRIOR FILING DATE: June 22, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/21090  
;; PRIOR FILING DATE: September 15, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28409  
;; PRIOR FILING DATE: No. US20020110859A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28313  
;; PRIOR FILING DATE: No. US20020110859A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28301  
;; PRIOR FILING DATE: December 1, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: December 16, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US00/03565  
;; PRIOR FILING DATE: February 11, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: February 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/05841  
;; PRIOR FILING DATE: March 2, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/08439  
;; PRIOR FILING DATE: March 30, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/14042  
;; PRIOR FILING DATE: May 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/20710  
;; PRIOR FILING DATE: July 28, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/32678  
;; PRIOR FILING DATE: December 1, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/06520  
;; PRIOR FILING DATE: February 28, 2001

;; NUMBER OF SEQ ID NOS: 120  
;; SEQ ID NO 103  
;; LENGTH: 27  
;; TYPE: DNA  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Synthetic oligonucleotide probe  
US-09-944-457-103  
Query Match 1.4%; Score 27; DB 10; Length 27;  
Best Local Similarity 100.0%; Pred.No. 0.016; 0; Indels 0; Caps 0;  
Matches 27; Conservative 0; Mismatches 0;  
Qy 1714 TGGGAAGATGGGCTTCATTAGATGCG 1740  
|||||  
Db 27 TGGGAAGATGGGCTTCATTAGATGCG 1  
RESULT 44  
US-09-945-587-103/C  
;; Sequence 103, Application US/09945587  
;; Patent No. US20020127643A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Baker, Kevin  
;; APPLICANT: Botstein, David  
;; APPLICANT: Eaton, Dan  
;; APPLICANT: Ferrara, Napoleone  
;; APPLICANT: Filvaroff, Ellen  
;; APPLICANT: Gerritsen, Mary  
;; APPLICANT: Goddard, Audrey  
;; APPLICANT: Godowski, Paul  
;; APPLICANT: Grimaldi, Christopher  
;; APPLICANT: Gurney, Austin  
;; APPLICANT: Hillan, Kenneth  
;; APPLICANT: Kljavin, Ivar  
;; APPLICANT: Napier, Mary  
;; APPLICANT: Roy, Margaret  
;; APPLICANT: Tumas, Daniel  
;; APPLICANT: Wood, William  
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
;; FILE REFERENCE: P2548P1C1  
;; CURRENT APPLICATION NUMBER: US/09/945,587  
;; CURRENT FILING DATE: 2001-09-26  
;; PRIOR APPLICATION NUMBER: 09/866,028  
;; PRIOR FILING DATE: 2001-05-25  
;; PRIOR APPLICATION NUMBER: 60/067,411  
;; PRIOR FILING DATE: December 3, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,334  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,335  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,278  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,425  
;; PRIOR FILING DATE: December 12, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,696  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,694  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,702  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,870  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,873  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/068,017  
;; PRIOR FILING DATE: December 18, 1997  
;; PRIOR APPLICATION NUMBER: 60/070,440  
;; PRIOR FILING DATE: January 5, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,086  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,092

PRIOR FILING DATE: February 9, 1998  
PRIOR APPLICATION NUMBER: 60/075,945  
PRIOR FILING DATE: February 25, 1998  
PRIOR APPLICATION NUMBER: 60/112,850  
PRIOR FILING DATE: December 16, 1998  
PRIOR APPLICATION NUMBER: 60/113,296  
PRIOR FILING DATE: December 22, 1998  
PRIOR APPLICATION NUMBER: 60/146,222  
PRIOR FILING DATE: July 28, 1999  
PRIOR APPLICATION NUMBER: PCT/US98/19330  
PRIOR FILING DATE: September 16, 1998  
PRIOR APPLICATION NUMBER: PCT/US98/25108  
PRIOR FILING DATE: December 1, 1998  
PRIOR APPLICATION NUMBER: 09/216,021  
PRIOR FILING DATE: December 16, 1998  
PRIOR APPLICATION NUMBER: 09/218,517  
PRIOR FILING DATE: December 22, 1998  
PRIOR APPLICATION NUMBER: 09/254,311  
PRIOR FILING DATE: March 3, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/12252  
PRIOR FILING DATE: June 22, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: September 15, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/28409  
PRIOR FILING DATE: No. US20020127643A1ember 30, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/28313  
PRIOR FILING DATE: No. US20020127643A1ember 30, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/28301  
PRIOR FILING DATE: December 1, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/30095  
PRIOR FILING DATE: December 16, 1999  
PRIOR APPLICATION NUMBER: PCT/US00/03565  
PRIOR FILING DATE: February 11, 2000  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: February 22, 2000  
PRIOR APPLICATION NUMBER: PCT/US00/05841  
PRIOR FILING DATE: March 2, 2000  
PRIOR APPLICATION NUMBER: PCT/US00/08439  
PRIOR FILING DATE: March 30, 2000  
PRIOR APPLICATION NUMBER: PCT/US00/14042  
PRIOR FILING DATE: May 22, 2000  
PRIOR APPLICATION NUMBER: PCT/US00/20710  
PRIOR FILING DATE: July 28, 2000  
PRIOR APPLICATION NUMBER: PCT/US00/32678  
PRIOR FILING DATE: December 1, 2000  
PRIOR APPLICATION NUMBER: PCT/US01/06520  
PRIOR FILING DATE: February 28, 2001  
NUMBER OF SEQ ID NOS: 120  
SEQ ID NO 103  
LENGTH: 27  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthetic oligonucleotide probe  
US-09-945-587-103

Query Match 1.4%; Score 27; DB 10; Length 27;  
Best Local Similarity 100.0%; Pred. No. 0.016;  
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1714 TGGGAAGATGGGCTTCAATTAGATGCC 1740  
Db 27 TGGGAAGATGGGCTTCAATTAGATGCC 1

## RESULT 45

US-09-945-015-103/c  
Sequence 103, Application US/09945015  
Patent No. US20020132768A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin  
APPLICANT: Botstein, David  
APPLICANT: Eaton, Dan

Ferrara, Napoleone  
Filvaroff, Ellen  
Gerritsen, Mary  
Goddard, Audrey  
Godowski, Paul  
Grimaldi, Christopher  
Gurney, Austin  
Hillan, Kenneth  
Kljasin, Ivar  
Napier, Mary  
Roy, Margaret  
Tomas, Daniel  
Wood, William  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P2548P1C1  
CURRENT APPLICATION NUMBER: US/09/945,015  
CURRENT FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 09/866,028  
PRIOR FILING DATE: 2001-05-25  
PRIOR APPLICATION NUMBER: 60/067,411  
PRIOR FILING DATE: December 3, 1997  
PRIOR APPLICATION NUMBER: 60/069,334  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069,335  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069,278  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069,425  
PRIOR FILING DATE: December 12, 1997  
PRIOR APPLICATION NUMBER: 60/069,696  
PRIOR FILING DATE: December 16, 1997  
PRIOR APPLICATION NUMBER: 60/069,694  
PRIOR FILING DATE: December 16, 1997  
PRIOR APPLICATION NUMBER: 60/069,702  
PRIOR FILING DATE: December 16, 1997  
PRIOR APPLICATION NUMBER: 60/069,870  
PRIOR FILING DATE: December 17, 1997  
PRIOR APPLICATION NUMBER: 60/069,873  
PRIOR FILING DATE: December 17, 1997  
PRIOR APPLICATION NUMBER: 60/068,017  
PRIOR FILING DATE: December 18, 1997  
PRIOR APPLICATION NUMBER: 60/070,440  
PRIOR FILING DATE: January 5, 1998  
PRIOR APPLICATION NUMBER: 60/074,086  
PRIOR FILING DATE: February 9, 1998  
PRIOR APPLICATION NUMBER: 60/074,092  
PRIOR FILING DATE: February 9, 1998  
PRIOR APPLICATION NUMBER: 60/075,945  
PRIOR FILING DATE: February 25, 1998  
PRIOR APPLICATION NUMBER: 60/112,850  
PRIOR FILING DATE: December 16, 1998  
PRIOR APPLICATION NUMBER: 60/113,296  
PRIOR FILING DATE: December 22, 1998  
PRIOR APPLICATION NUMBER: 60/146,222  
PRIOR FILING DATE: July 28, 1999  
PRIOR APPLICATION NUMBER: PCT/US98/19330  
PRIOR FILING DATE: September 16, 1998  
PRIOR APPLICATION NUMBER: PCT/US98/25108  
PRIOR FILING DATE: December 1, 1998  
PRIOR APPLICATION NUMBER: 09/216,021  
PRIOR FILING DATE: December 16, 1998  
PRIOR APPLICATION NUMBER: 09/218,517  
PRIOR FILING DATE: December 22, 1998  
PRIOR APPLICATION NUMBER: 09/254,311  
PRIOR FILING DATE: March 3, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/12252  
PRIOR FILING DATE: June 22, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: September 15, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/28409  
PRIOR FILING DATE: No. US20020132768A1ember 30, 1999  
PRIOR APPLICATION NUMBER: PCT/US99/28313

;; PRIOR FILING DATE: NO. US20020132768A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28301  
;; PRIOR FILING DATE: December 1, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: December 16, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US00/03565  
;; PRIOR FILING DATE: February 11, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: February 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/05841  
;; PRIOR FILING DATE: March 2, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/08439  
;; PRIOR FILING DATE: March 30, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/14042  
;; PRIOR FILING DATE: May 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/20710  
;; PRIOR FILING DATE: July 28, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/32678  
;; PRIOR FILING DATE: December 1, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/06520  
;; PRIOR FILING DATE: February 28, 2001  
;; NUMBER OF SEQ ID NOS: 120  
;; SEQ ID NO 103  
;; LENGTH: 27  
;; TYPE: DNA  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Synthetic oligonucleotide probe

US-09-945-015-103

Query Match 1.4%: Score 27; DB 10; Length 27;

Best Local Similarity 100.0%; Pred. No. 0.016;

Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1714 TGGGAAGATGGCTTCAATTAGATGCG 1740

Db 27 TGGGAAGATGGCTTCAATTAGATGCG 1

RESULT 46

US-09-944-396-103/c

;; Sequence 103, Application US/09944396

;; Patent No. US20020132981A1

;; GENERAL INFORMATION:

;; APPLICANT: Baker, Kevin

;; APPLICANT: Botstein, David

;; APPLICANT: Eaton, Dan

;; APPLICANT: Ferrara, Napoleone

;; APPLICANT: Filvaroff, Ellen

;; APPLICANT: Gerritsen, Mary

;; APPLICANT: Goddard, Audrey

;; APPLICANT: Godowski, Paul

;; APPLICANT: Grimaldi, Christopher

;; APPLICANT: Gurney, Austin

;; APPLICANT: Hillan, Kenneth

;; APPLICANT: Kljavin, Ivar

;; APPLICANT: Napier, Mary

;; APPLICANT: Roy, Margaret

;; APPLICANT: Tumas, Daniel

;; APPLICANT: Wood, William

;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

;; FILE REFERENCE: P2548P1C1

;; CURRENT FILING DATE: 2001-09-26

;; PRIOR APPLICATION NUMBER: US/09/944,396

;; PRIOR FILING DATE: 2001-09-25

;; PRIOR APPLICATION NUMBER: 60/067,411

;; PRIOR FILING DATE: December 3, 1997

;; PRIOR APPLICATION NUMBER: 60/069,334

;; PRIOR FILING DATE: December 11, 1997

;; PRIOR APPLICATION NUMBER: 60/069,335

;; PRIOR FILING DATE: December 11, 1997

;; PRIOR APPLICATION NUMBER: 60/069,278  
;; PRIOR FILING DATE: December 11, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,425  
;; PRIOR FILING DATE: December 12, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,696  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,694  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,702  
;; PRIOR FILING DATE: December 16, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,870  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/069,873  
;; PRIOR FILING DATE: December 17, 1997  
;; PRIOR APPLICATION NUMBER: 60/068,017  
;; PRIOR FILING DATE: December 18, 1997  
;; PRIOR APPLICATION NUMBER: 60/070,440  
;; PRIOR FILING DATE: January 5, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,086  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/074,092  
;; PRIOR FILING DATE: February 9, 1998  
;; PRIOR APPLICATION NUMBER: 60/075,945  
;; PRIOR FILING DATE: February 25, 1998  
;; PRIOR APPLICATION NUMBER: 60/112,850  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 60/113,296  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 60/146,222  
;; PRIOR FILING DATE: July 28, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US98/19330  
;; PRIOR FILING DATE: September 16, 1998  
;; PRIOR APPLICATION NUMBER: PCT/US98/25108  
;; PRIOR FILING DATE: December 1, 1998  
;; PRIOR APPLICATION NUMBER: 09/216,021  
;; PRIOR FILING DATE: December 16, 1998  
;; PRIOR APPLICATION NUMBER: 09/218,517  
;; PRIOR FILING DATE: December 22, 1998  
;; PRIOR APPLICATION NUMBER: 09/254,311  
;; PRIOR FILING DATE: March 3, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/12252  
;; PRIOR FILING DATE: June 22, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/21090  
;; PRIOR FILING DATE: September 15, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28409  
;; PRIOR FILING DATE: No. US20020132981A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28313  
;; PRIOR FILING DATE: No. US20020132981A1ember 30, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/28301  
;; PRIOR FILING DATE: December 1, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: December 16, 1999  
;; PRIOR APPLICATION NUMBER: PCT/US00/03565  
;; PRIOR FILING DATE: February 11, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: February 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/05841  
;; PRIOR FILING DATE: March 2, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/08439  
;; PRIOR FILING DATE: March 30, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/14042  
;; PRIOR FILING DATE: May 22, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/20710  
;; PRIOR FILING DATE: July 28, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US00/32678  
;; PRIOR FILING DATE: December 1, 2000  
;; PRIOR APPLICATION NUMBER: PCT/US01/06520  
;; PRIOR FILING DATE: February 28, 2001  
;; NUMBER OF SEQ ID NOS: 120  
;; SEQ ID NO 103  
;; LENGTH: 27  
;; TYPE: DNA  
;; ORGANISM: Artificial Sequence

;; ORGANISM: Artificial Sequence

; FEATURE:  
; OTHER INFORMATION: Synthetic oligonucleotide probe  
US-09-944-396-103

Query Match 1.4%; Score 27; DB 10; Length 27;  
Best Local Similarity 100.0%; Pred. No. 0.016;

Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1714 TGGGAAGATGGGCTTCAATTAGATGGC 1740

Db 27 TGGGAAGATGGGCTTCAATTAGATGGC 1

## RESULT 47

US-09-944-097-103/c

; Sequence 103, Application US/09944097

; Patent No. US20020133675A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin

; APPLICANT: Botstein, David

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gerritsen, Mary

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul

; APPLICANT: Grimaldi, Christopher

; APPLICANT: Gurney, Austin

; APPLICANT: Hillan, Kenneth

; APPLICANT: Kljavin, Ivar

; APPLICANT: Napier, Mary

; APPLICANT: Roy, Margaret

; APPLICANT: Tumas, Daniel

; APPLICANT: Wood, William

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE REFERENCE: P2548P1C1

; CURRENT APPLICATION NUMBER: US/09/944, 097

; CURRENT FILING DATE: 2001-08-31

; PRIOR APPLICATION NUMBER: 09/866, 028

; PRIOR FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: 60/069, 334

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069, 335

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069, 278

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069, 425

; PRIOR FILING DATE: December 12, 1997

; PRIOR APPLICATION NUMBER: 60/069, 696

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069, 694

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069, 702

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069, 870

; PRIOR FILING DATE: December 17, 1997

; PRIOR APPLICATION NUMBER: 60/069, 873

; PRIOR FILING DATE: December 17, 1997

; PRIOR APPLICATION NUMBER: 60/068, 017

; PRIOR FILING DATE: December 18, 1997

; PRIOR APPLICATION NUMBER: 60/070, 440

; PRIOR FILING DATE: January 5, 1998

; PRIOR APPLICATION NUMBER: 60/074, 086

; PRIOR FILING DATE: February 9, 1998

; PRIOR APPLICATION NUMBER: 60/074, 092

; PRIOR FILING DATE: February 9, 1998

; PRIOR APPLICATION NUMBER: 60/075, 945

; PRIOR FILING DATE: February 25, 1998

; PRIOR APPLICATION NUMBER: 60/112, 850

; PRIOR FILING DATE: December 16, 1998

; PRIOR APPLICATION NUMBER: 60/113, 296

; PRIOR FILING DATE: December 22, 1998

; PRIOR APPLICATION NUMBER: 60/146, 222  
; PRIOR FILING DATE: July 28, 1999  
; PRIOR APPLICATION NUMBER: PCT/US98/19330  
; PRIOR FILING DATE: September 16, 1998  
; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: December 1, 1998  
; PRIOR APPLICATION NUMBER: 09/216, 021  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 09/218, 517  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254, 311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: NO. US20020133675A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: NO. US20020133675A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December 1, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: December 16, 1999  
; PRIOR APPLICATION NUMBER: PCT/US00/03565  
; PRIOR FILING DATE: February 11, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: February 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: March 2, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/08439  
; PRIOR FILING DATE: March 30, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/14042  
; PRIOR FILING DATE: May 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/20710  
; PRIOR FILING DATE: July 28, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/32678  
; PRIOR FILING DATE: December 1, 2000  
; PRIOR APPLICATION NUMBER: PCT/US01/06520  
; PRIOR FILING DATE: February 28, 2001  
; NUMBER OF SEQ ID NOS: 120  
; SEQ ID NO 103  
; LENGTH: 27  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic oligonucleotide probe  
US-09-944-097-103

Query Match 1.4%; Score 27; DB 10; Length 27;

Best Local Similarity 100.0%; Pred. No. 0.016;

Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1714 TGGGAAGATGGGCTTCAATTAGATGGC 1740

Db 27 TGGGAAGATGGGCTTCAATTAGATGGC 1

## RESULT 48

US-09-944-432-103/c

; Sequence 103, Application US/09944432

; Patent No. US20020142419A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin

; APPLICANT: Botstein, David

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gerritsen, Mary

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul

; APPLICANT: Grimaldi, Christopher

; APPLICANT: Gurney, Austin



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; PRIOR APPLICATION NUMBER: PCT/US00/044111
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 103
; LENGTH: 27
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; -OTHER INFORMATION: Synthetic oligonucleotide
US-09-944-432-103

Query Match 1.4%; Score 27;
Best Local Similarity 100.0%; Pred. No
Matches 27; Conservative 0; Mismatch

QY 1714 TGGGAAGATGGCTTCAATTAGATGGC 1740
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DB 27 TGGGAAGATGGCTTCAATTAGATGGC 1

RESULT 49
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; Sequence 103, Application US/09943762
; Patent No. US20020142958A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Flivaraoff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavlin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSFORMED
; TITLE OF INVENTION: ACIDS ENCODING THE S
; FILE REFERENCE: P2549P1C1
; CURRENT APPLICATION NUMBER: US/09/943,762
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694

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; PRIOR FILING DATE: December 16, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,702  
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 ; PRIOR FILING DATE: December 18, 1997  
 ; PRIOR APPLICATION NUMBER: 60/070,440  
 ; PRIOR FILING DATE: January 5, 1998  
 ; PRIOR APPLICATION NUMBER: 60/074,086  
 ; PRIOR FILING DATE: February 9, 1998  
 ; PRIOR APPLICATION NUMBER: 60/074,092  
 ; PRIOR FILING DATE: February 9, 1998  
 ; PRIOR APPLICATION NUMBER: 60/075,945  
 ; PRIOR FILING DATE: February 25, 1998  
 ; PRIOR APPLICATION NUMBER: 60/112,850  
 ; PRIOR FILING DATE: December 16, 1998  
 ; PRIOR APPLICATION NUMBER: 60/113,296  
 ; PRIOR FILING DATE: December 22, 1998  
 ; PRIOR APPLICATION NUMBER: 60/146,222  
 ; PRIOR FILING DATE: July 28, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US98/19330  
 ; PRIOR FILING DATE: September 16, 1998  
 ; PRIOR APPLICATION NUMBER: PCT/US98/25108  
 ; PRIOR FILING DATE: December 1, 1998  
 ; PRIOR APPLICATION NUMBER: 09/216,021  
 ; PRIOR FILING DATE: December 16, 1998  
 ; PRIOR APPLICATION NUMBER: 09/218,517  
 ; PRIOR FILING DATE: December 22, 1998  
 ; PRIOR APPLICATION NUMBER: 09/254,311  
 ; PRIOR FILING DATE: March 3, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/12252  
 ; PRIOR FILING DATE: June 22, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090  
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 ; PRIOR APPLICATION NUMBER: PCT/US99/28409  
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 ; PRIOR APPLICATION NUMBER: PCT/US99/28313  
 ; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/28301  
 ; PRIOR FILING DATE: December 1, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095  
 ; PRIOR FILING DATE: December 16, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US00/03565  
 ; PRIOR FILING DATE: February 11, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414  
 ; PRIOR FILING DATE: February 22, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/05841  
 ; PRIOR FILING DATE: March 2, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/08439  
 ; PRIOR FILING DATE: March 30, 2000  
 ; PRIOR APPLICATION NUMBER: PCT/US00/14042  
 ; PRIOR FILING DATE: May 22, 2000  
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 ; PRIOR APPLICATION NUMBER: PCT/US00/32678  
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 ; PRIOR APPLICATION NUMBER: PCT/US01/06520  
 ; PRIOR FILING DATE: February 28, 2001  
 ; NUMBER OF SEQ ID NOS: 120  
 ; SEQ ID NO 103  
 ; LENGTH: 27  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
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 ; OTHER INFORMATION: Synthetic oligonucleotide probe  
 US-09-943-762-103

Query Match 1.4%; Score 27; DB 10; Length 27;  
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 Db 27 TGGAGAGATGGGCTTCAATTAGATGGC 1  
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 ; Patent No. US20020142959A1  
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 ; APPLICANT: Baker, Kevin  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Eaton, Dan  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Gottard, Audrey  
 ; APPLICANT: Godowski, Paul  
 ; APPLICANT: Grimaldi, Christopher  
 ; APPLICANT: Gurney, Austin  
 ; APPLICANT: Hillan, Kenneth  
 ; APPLICANT: Kljavin, Ivar  
 ; APPLICANT: Napier, Mary  
 ; APPLICANT: Roy, Margaret  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Wood, William  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; FILE REFERENCE: P2548P1C1  
 ; CURRENT FILING DATE: 2001-09-26  
 ; PRIOR APPLICATION NUMBER: 09/866,028  
 ; PRIOR FILING DATE: 2001-05-25  
 ; PRIOR APPLICATION NUMBER: 60/067,411  
 ; PRIOR FILING DATE: December 3, 1997  
 ; PRIOR APPLICATION NUMBER: 60/069,334  
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 ; PRIOR APPLICATION NUMBER: 60/069,278  
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 ; PRIOR FILING DATE: December 16, 1998  
 ; PRIOR APPLICATION NUMBER: 60/113,296  
 ; PRIOR FILING DATE: December 22, 1998  
 ; PRIOR APPLICATION NUMBER: 60/146,222  
 ; PRIOR FILING DATE: July 28, 1999  
 ; PRIOR APPLICATION NUMBER: PCT/US98/19330  
 ; PRIOR FILING DATE: September 16, 1998  
 ; PRIOR APPLICATION NUMBER: PCT/US98/25108

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; PRIOR FILING DATE: December 1, 1998  
; PRIOR APPLICATION NUMBER: 09/216,021  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 09/218,517  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
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; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. US20020142959A1ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
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; PRIOR FILING DATE: February 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: March 2, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/08439  
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; PRIOR APPLICATION NUMBER: PCT/US00/14042  
; PRIOR FILING DATE: May 22, 2000  
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; PRIOR FILING DATE: July 28, 2000  
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; PRIOR APPLICATION NUMBER: PCT/US01/06520  
; PRIOR FILING DATE: February 28, 2001  
; NUMBER OF SEQ ID NOS: 120  
; SEQ ID NO 103  
; LENGTH: 27  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic oligonucleotide probe  
US-09-944-654-103

Query Match 1.4%; Score 27; DB 10; Length 27;  
Best Local Similarity 100.0%; Pred. No. 0.016;  
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 27 TGGGAAGATGGGCTTCAATTAGATGGC 1

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Job time : 150 secs

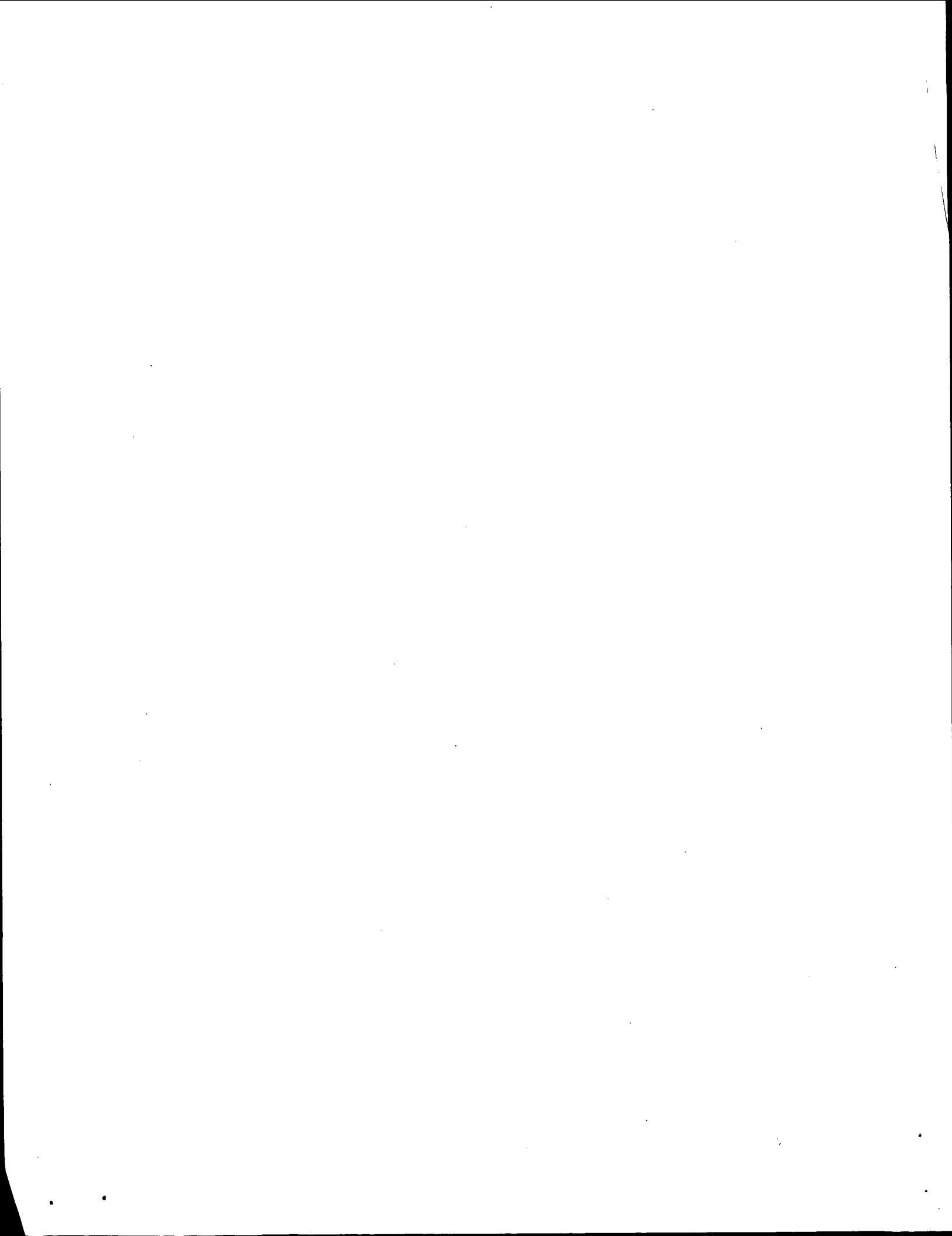


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 Protegene Inc. (JP) ; SAGAMI CHEMICAL RESEARCH CENTER (JP)  
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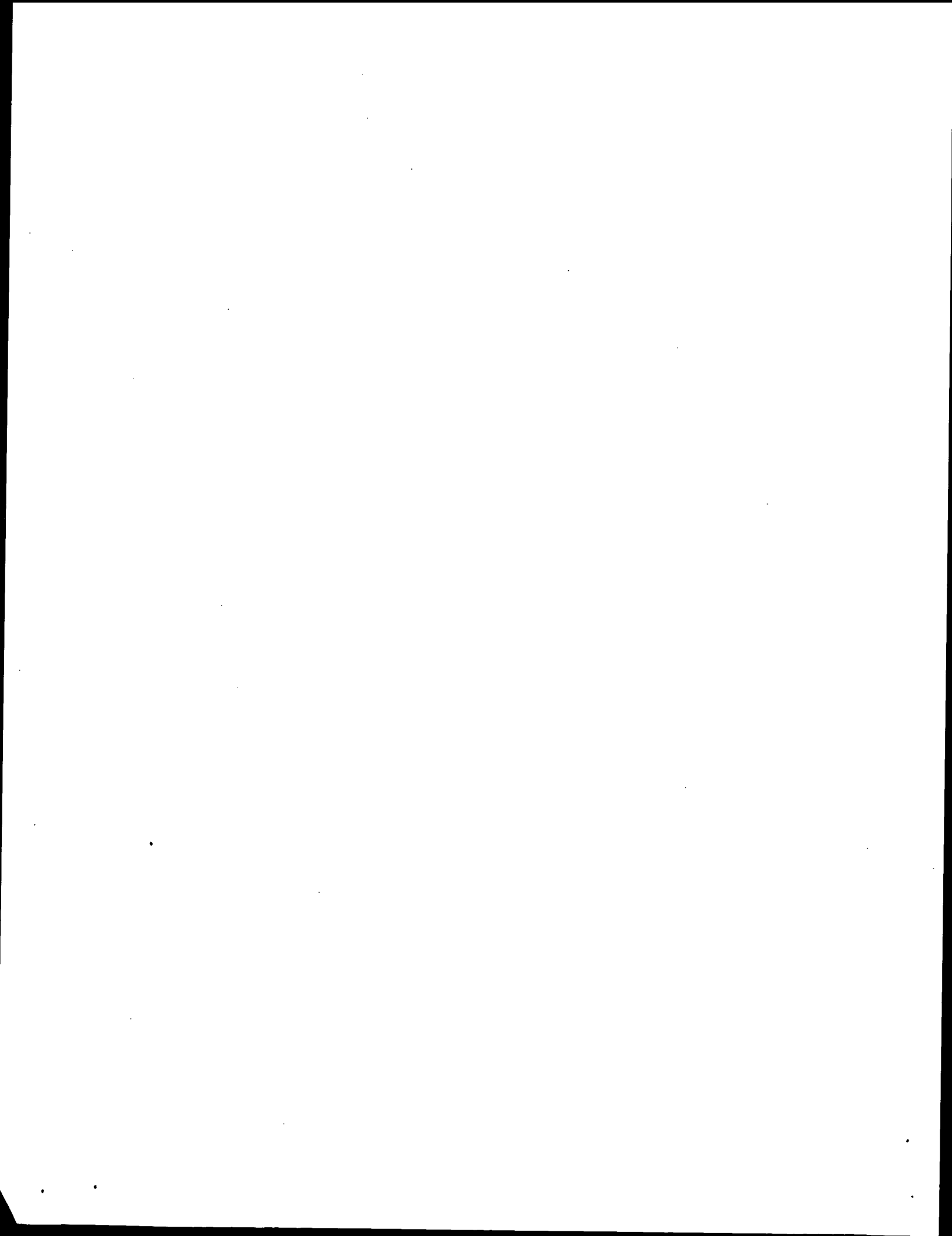
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 DB 2 AAACAGCGGGTGTGAGCCAGGCTGTGCACGGAGTGCCTGTGACGGGGCCCAACACACC 61  
 QY 123 TGTGTCATCAGAGACCTCCCTGGCGGGGGGATCTCTGGCTGTGCTCTGGCCCTC 182  
 DB 62 TGTGTCATCAGAGACCTCCCTGGCGGGGGATCTCTGGCTGTGCTCTGGCCCTC 121  
 QY 183 CTGGACACACCTGGGAGAGGTGTGGCCACCCAGCTGCAGGAGCAGCTCCGATGGCC 242  
 DB 122 CTGGACACACCTGGGAGAGGTGTGGCCACCCAGCTGCAGGAGCAGCTCCGATGGCC 181  
 QY 243 GGAGCCCTGAACAGAGGAGGATTTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 302  
 DB 182 GGAGCCCTGAACAGAGGAGGATTTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 241  
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 DB 242 TGGTCCAGCCCTTGGGCTGACATGGGAGGCTGGAGTGCAGAGCAGCTGGCCCAA 301  
 QY 363 CTGGCTCAAGCAGGAGGAGCTCTGTGGATCCCAACCCCGAGCCTGGCAGCCGCTG 422  
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 DB 602 GCCTACTCCCCCGGAGGAGCACTGGAGGTCAACGGGAGGAGGAGGAGGAGGAGGAG 661  
 QY 723 GTGGCTGTGGTGTCTGCTCTGACAGCCAGTGTCTCAGGCTGTCTCAAGCCCTGGGACCAT 782  
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 QY 1023 ACCTGTGACCTGAGGATGCAGGAGACTCTCTCATGTGTCTTTCAGAGGAGGAGACCTAT 1082  
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 QY 1083 TACAGAGCAGGATGAATGTTCAGAGGAAGCGGGGTGTGTCGCCACAGATCAAGAGCAG 1142  
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 QY 1263 TCCCTTCCGCTGGGCGACAGGGGAGCAGGAGCCTTCCAGAGTGTGCTTGGCAGGCT 1322  
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 QY 1803 TGGGCGCAGGAGCTTCCCTGTGGCATGAACCCAGGGGTATTAATATTAATAGTACGT 1862  
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 QY 1863 C 1863

*Synova Aligned*



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 FH Key  
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 PR 05-JAN-1998; 98US-0070440.  
 PR 29-APR-1998; 98US-0083500.  
 PR 22-MAY-1998; 98US-0086414.  
 PR



PR 10-JUN-1998; 98US-0088742.  
 PR 10-NOV-1998; 98US-0107783.  
 XX (GETH) GENENTECH INC.  
 XX Botstein D, Goddard A, Gurney AL, Hillan KJ, Lawrence DA;  
 PI Roy MA, Wood WI;  
 XX WPI; 1999-430385/36.  
 DR P-PSDB; AAY06483.  
 XX  
 PT Antibody against proteins expressed in neoplastic cells, useful for  
 PT tumor diagnosis and treatment  
 XX  
 PS Example 1; Fig 13; 162pp; English.  
 XX  
 CC This is the nucleotide sequence of cDNA clone DNA44176 (ATCC 209532)  
 CC coding for human PRO347 (UNQ306) (see AAY06482). The clone was  
 CC isolated from a foetal kidney library. Amplification of DNA44176  
 CC occurs in various tumours, suggesting an association with tumour  
 CC formation or growth. Antagonists (e.g. antibodies) directed against  
 CC PRO347 may have use in cancer therapy. The invention identifies 14  
 CC genes (see AAX87254-67) that are amplified in the genome of tumour  
 CC cells. Such amplification is expected to be associated with  
 CC overexpression of the gene product and to contribute to  
 CC tumorigenesis. The encoded proteins (see AAY06477-90) may be useful  
 CC targets for the diagnosis and/or treatment (including prevention)  
 CC of certain cancers, and may act as predictors of the prognosis of  
 CC tumour treatment.  
 CC  
 XX  
 SQ Sequence 1876 BP; 387 A; 568 C; 574 G; 347 T; 0 other;  
 Query Match 100.0%; Score 1876; DB 20; Length 1876;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 1876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 CTCCTTTCTCCACAGCCAGCCTGACTCCTGGAGATTGGATACCTCATCCAGCCTG 60  
 DB 1 CTCCTTTCTCCACAGCCAGCCTGACTCCTGGAGATTGGATACCTCATCCAGCCTG 60  
 QY 61 AGAACAAAGCCGGGTGGCTGAGCCAGGCTGTGCACGAGACCTGACGGGCCCAACAGAC 120  
 DB 61 AGAACAAAGCCGGGTGGCTGAGCCAGGCTGTGCACGAGACCTGACGGGCCCAACAGAC 120  
 QY 121 CCATGCTCATCCAGAGACCTCCCTGGCCGGGGGATCTCCTGGCTGTGCTCTGGCCC 180  
 DB 121 CCATGCTCATCCAGAGACCTCCCTGGCCGGGGGATCTCCTGGCTGTGCTCTGGCCC 180  
 QY 181 TCCTTGGCACCACCTGGCAGAGGTGTGCCACCCAGCTGACGAGAGAGGCTCCGATGG 240  
 DB 181 TCCTTGGCACCACCTGGCAGAGGTGTGCCACCCAGCTGACGAGAGAGGCTCCGATGG 240  
 QY 241 CCGAGAGCCCTGAACAGGAGAGAGTTCCTTCTCCTCTCCCTGCAACACCCGCTCGCA 300  
 DB 241 CCGAGAGCCCTGAACAGGAGAGAGTTCCTTCTCCTCTCCCTGCAACACCCGCTCGCA 300  
 QY 301 GCTGGGTCCAGCCCTCGGCTGACATGCGGAGCTGGAGCTGGAGTACAGCCTGGCCC 360  
 DB 301 GCTGGGTCCAGCCCTCGGCTGACATGCGGAGCTGGAGTACAGCCTGGCCC 360  
 QY 361 AACTGGCTCAAGCCAGGAGCCCTCTGTGGATCCCAACCCAGCCTGGGATCGGGCC 420  
 DB 361 AACTGGCTCAAGCCAGGAGCCCTCTGTGGAATCCCAACCCAGCCTGGGATCGGGCC 420  
 QY 421 TGTGGCGCACCTCGAAGTGGCTGGAACATGCACCTGCTGCTCCCGGGCTTGGGCTCT 480  
 DB 421 TGTGGCGCACCTGCAAGTGGCTGGAACATGCACCTGCTGCTCCCGGGCTTGGGCTCT 480  
 QY 481 TTGTTGAAGTGGTACGCTATGTTTTCAGAGGGGCGAGCGGTACAGCCGGCAGGAG 540  
 DB 481 TTGTTGAAGTGGTACGCTATGTTTTCAGAGGGGCGAGCGGTACAGCCGGCAGGAG 540  
 QY 541 AGTGTGTCGCAACGCCACCTGCACCCACTACACGCACTCGTGTGGGCCACCTCAAGCC 600

DB 541 AGTGTGTCGCAACGCCACCTGCACCCACTACACGAGCTGTGTGGGCCACCTCAAGCC 600  
 QY 601 AGCTGGGCTGTGGGGGACACCTGTCTGTGAGCCAGACAGCATAGAGCTTTGTCT 660  
 DB 601 AGCTGGGCTGTGGGGGACACCTGTCTGTGAGCCAGACAGCATAGAGCTTTGTCT 660  
 QY 661 GTGCCTACTCCCGGAGGCAACTGGGAGGTCAACGGGAGACATCATCCCTATAAGA 720  
 DB 661 GTGCCTACTCCCGGAGGCAACTGGGAGGTCAACGGGAGACATCATCCCTATAAGA 720  
 QY 721 AGGTGCTGTGTGTGCTGTGCACAGCCAGTGTCTCAGGCTGTCTCAGGCTGTGAGCC 780  
 DB 721 AGGTGCTGTGTGTGCTGTGCACAGCCAGTGTCTCAGGCTGTCTCAGGCTGTGAGCC 780  
 QY 781 ATGCAGGGGGCTGTGTGAGTCCCGAGGAATCCTGTGCGATGAGCTGCCAGAACCATG 840  
 DB 781 ATGCAGGGGGCTGTGTGAGTCCCGAGGAATCCTGTGCGATGAGCTGCCAGAACCATG 840  
 QY 841 GACGTCTCAACATCAGACACCTGCCACTGCCACTGTCCCTGGCTACACGGGAGATCT 900  
 DB 841 GACGTCTCAACATCAGACACCTGCCACTGCCACTGTCCCTGGCTACACGGGAGATCT 900  
 QY 901 GCCAAGTGTGAGTGTGAGTGTGTGCACGGCGGCTTCCGGGAGGAGGTGCTCT 960  
 DB 901 GCCAAGTGTGAGTGTGAGTGTGTGCACGGCGGCTTCCGGGAGGAGGTGCTCT 960  
 QY 961 GCCTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCAACAGTGTCTTCCCTTCC 1020  
 DB 961 GCCTCTGTGACATCGGCTACGGGGAGCCAGTGTGCCAACAGTGTCTTCCCTTCC 1020  
 QY 1021 ACACCTGTGACCTGAGGATGACGAGACTGCTTTCATGGTGTCTTCAGAGGAGACACT 1080  
 DB 1021 ACACCTGTGACCTGAGGATGACGAGACTGCTTTCATGGTGTCTTCAGAGGAGACACT 1080  
 QY 1081 ATTACAGAGCCAGGATGAAATGTGAGAGGAAGGGGGTGTGCCCCAGATCAAGAGCC 1140  
 DB 1081 ATTACAGAGCCAGGATGAAATGTGAGAGGAAGGGGGTGTGCCCCAGATCAAGAGCC 1140  
 QY 1141 AGAAAGTGCAGGACATCCTCGCTTCTATCTGGCCGCTGGAGACCAACAGAGTGA 1200  
 DB 1141 AGAAAGTGCAGGACATCCTCGCTTCTATCTGGCCGCTGGAGACCAACAGAGTGA 1200  
 QY 1201 CTGACAGTGTCTGACACAGGAACTCTGATGCGGCTCACCTACAGACCCGCAAG 1260  
 DB 1201 CTGACAGTGTCTGACACAGGAACTCTGATGCGGCTCACCTACAGACCCGCAAG 1260  
 QY 1261 ACTCCTTCCGCTGGGCCACAGGGGAGCACCAGGCTTCAACAGTTCCTTGGGAGC 1320  
 DB 1261 ACTCCTTCCGCTGGGCCACAGGGGAGCACCAGGCTTCAACAGTTCCTTGGGAGC 1320  
 QY 1321 CTGACAAACAGGCTGTGTGGTGTGCTGCTGCTTGGGCTTTGGCACTGCTGGAGC 1380  
 DB 1321 CTGACAAACAGGCTGTGTGGTGTGCTGCTGCTTGGGCTTTGGCACTGCTGGAGC 1380  
 QY 1381 TGAGAGCTTCAAGTGTGCTTCACTGGAACAGCAGCTGTGAAACCCGAAACCGTTACA 1440  
 DB 1381 TGAGAGCTTCAAGTGTGCTTCACTGGAACAGCAGCTGTGAAACCCGAAACCGTTACA 1440  
 QY 1441 TCTGCCAGTTTGGCCAGGACATCTCCCGGTGGGGCCAGGCTTCTGAGGCTTGACCA 1500  
 DB 1441 TCTGCCAGTTTGGCCAGGACATCTCCCGGTGGGGCCAGGCTTCTGAGGCTTGACCA 1500  
 QY 1501 CATGGCTCCTCGCTGCTGGAGACACCGCTCTGCTTACCTGTCTGCGCCACCTGTCT 1560  
 DB 1501 CATGGCTCCTCGCTGCTGGAGACACCGCTCTGCTTACCTGTCTGCGCCACCTGTCT 1560  
 QY 1561 GGAACAGGGCCAGGTTAAGACACATGCTCATGTCCAAAGAGGTCTAGACCTTGAC 1620  
 DB 1561 GGAACAGGGCCAGGTTAAGACACATGCTCATGTCCAAAGAGGTCTAGACCTTGAC 1620  
 QY 1621 AATGTCAGAGTTGGGCGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGT 1680



Db 1621 AATGCCAGAAAGTTGGGCAGAGAGAGCGAGGCCAGTGAGGGCCAGGGAGTGAGTGTT 1680  
Qy 1681 AGAAGAAAGCTGGGGCCCTTCGCTGCTTTTGATTGGGAAGATGGGCTTCAATTAGATGGC 1740  
Db 1681 AGAAGAAAGCTGGGGCCCTTCGCTGCTTTTGATTGGGAAGATGGGCTTCAATTAGATGGC 1740  
Qy 1741 GAAAGGAGAGGACACCGCCAGTGTCCAAAAAGGCTGCTCTCTCCACCTGGCCCGACACC 1800  
Db 1741 GAAGGAGAGGACACCGCCAGTGTCCAAAAAGGCTGCTCTCTCCACCTGGCCCGACACC 1800  
Qy 1801 TGTGGGGCAGCGGAGCTTCCCTGTGCGCATGAACCCACGGGGTATTAAATTATGAATCAG 1860  
Db 1801 TGTGGGGCAGCGGAGCTTCCCTGTGCGCATGAACCCACGGGGTATTAAATTATGAATCAG 1860  
Qy 1861 CTGAAAAA 1876  
Db 1861 CTGAAAAA 1876



RESULT 12  
AT192411  
LOCUS  
an34b09.y5 Gessler Wlms tumor Homo sapiens cDNA clone  
DEFINITION  
IMAGE:1700537 5' similar to FR:043692 043692 25 KDA TRYPSIN  
INHIBITOR. ; mRNA sequence.  
ACCESSION  
AT192411  
VERSION  
AT192411.1 GI:5340127  
KEYWORDS  
EST.  
SOURCE  
human.  
ORGANISM  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.

REFERENCE  
1 (bases 1 to 463)  
NCI/NIDR-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
National Cancer Institute / National Institute of Dental Research,  
Cancer genome Anatomy Project (CGAP), Tumor Gene Index  
Unpublished (1997)  
CONTACT: Robert Strausberg, Ph.D.  
Email: cgapbs-r@mail.nih.gov  
This clone is available royalty-free through LNL; contact the  
IMAGE Consortium (info@image.lnl.gov) for further information.  
This read is a RESEQUENCE of a previously sequenced human clone  
Original clone citation: see original entry for original citation  
Information  
This 5' resequenced clone has no previous 5' data to verify this  
new read against  
Seq primer: -40RP from gibco  
High quality sequence stop: 429.  
Location/Qualifiers  
1. 463

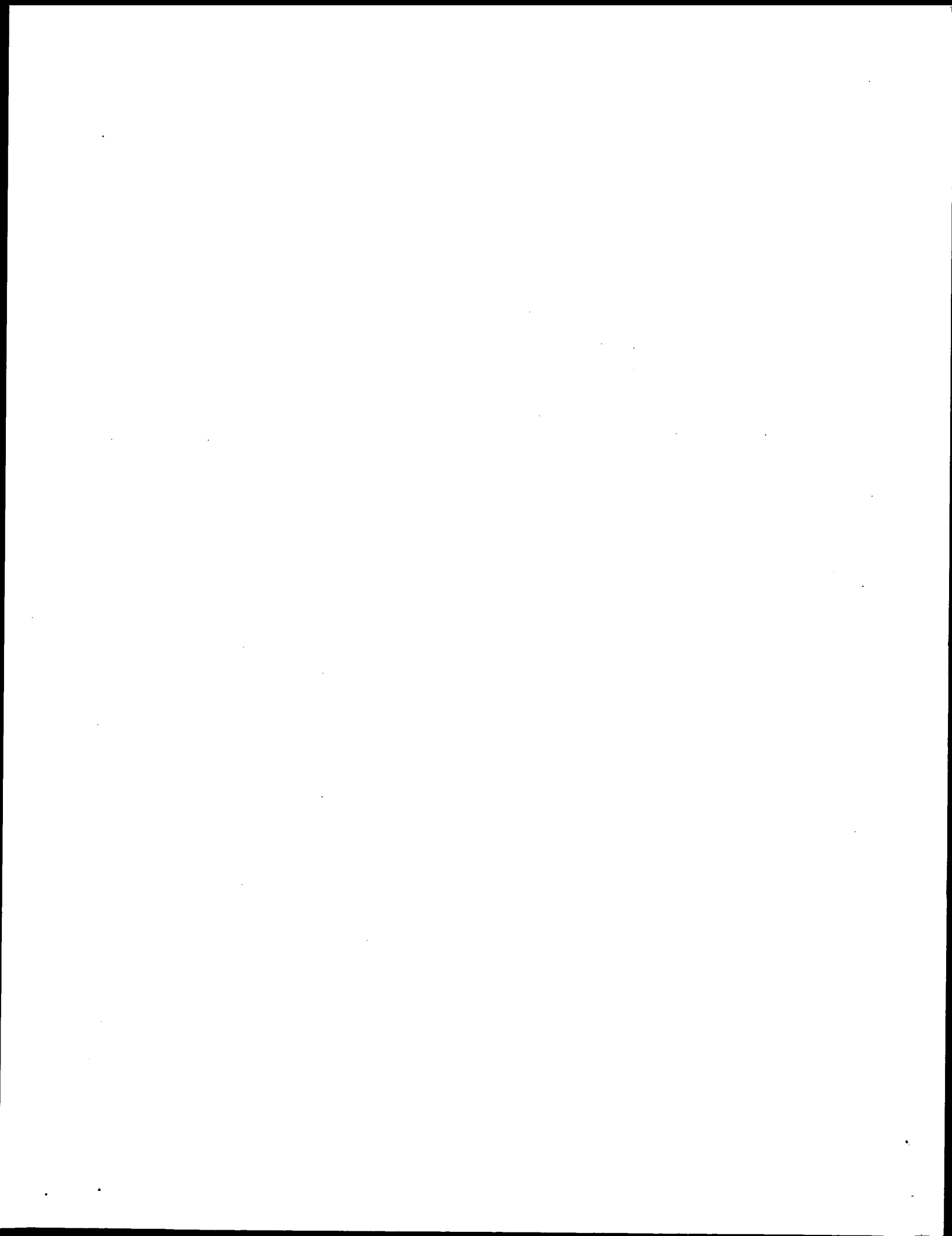
FEATURES  
source

1. 463  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:1700537"  
/clone\_lib="Gessler Wlms tumor"  
/sex="pooled (6)"  
/lab\_host="DH10B"  
/note="Vector: pSPORT1; site\_1: SalI; site\_2: NotI; RNA  
was prepared from a pool of 6 anonymous Wlms tumor RNAs.  
RNA was prepared by acid-phenol, followed by one round of  
oligo dt selection. cDNA library preparation was with  
the BRL/Life Tech. Superscript Plasmid system. An  
oligo-dt NotI primer for first strand synthesis generated  
9cggccggccctt)n at the 3' end of the clones. A 5' SalI  
adaptor was used with sequence 5'-gtcggcccgccg-3'.  
Resulting cDNAs were size selected (average size 2 kb),  
NotI digested, and ligated into NotI/SalI-cut pSPORT1.  
Library was constructed by Dr. Manfred Gessler."

BASE COUNT  
ORIGIN

Query Match  
25.3%; Score 335.4; DB 9; Length 463;  
Best Local Similarity 99.7%; Pred. No. 3e-65;  
Matches 336; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

123  
QY ATGCTGCATCTCCAGAGACCTCCCTGGGCGGCGCATCTCCCTGGGCTGTGCTCCCTG 60  
DB 127 ATGCTGCATCTCCAGAGACCTCCCTGGGCGGCGCATCTCCCTGGGCTGTGCTCCCTG 186  
QY 61 CTTGGCACCACCTGTGGGAGAGAGTGTGGGCCACCCGAGCTGAGAGGAGCTCCGATGGCC 120  
DB 187 CTTGGCACCACCTGTGGGAGAGAGTGTGGGCCACCCGAGCTGAGAGGAGCTCCGATGGCC 246  
QY 121 GGAAGCCCTGTGAACAGAGAGAGTGTGGCTCTCCCTGTGCTCTCCCTGTGCGGAGC 180  
DB 247 GGAAGCCCTGTGAACAGAGAGAGTGTGGCTCTCCCTGTGCTCTCCCTGTGCGGAGC 306  
QY 181 TGGGTCCAGAGCCCTGTGCGGCTGTGACATGTGGAGGAGTGTGAGTGTGAGTGTGAGTGTG 240  
DB 307 TGGGTCCAGAGCCCTGTGCGGCTGTGACATGTGGAGGAGTGTGAGTGTGAGTGTGAGTGTG 366  
QY 241 CTGGCTCAAGGCCAGAGGCCCTCTGTGTGGAATCCCAACCCCGAGGCTGTGCGGAGCTG 300  
DB 367 CTGGCTCAAGGCCAGAGGCCCTCTGTGTGGAATCCCAACCCCGAGGCTGTGCGGAGCTG 426  
QY 301 TGGCGCACCCCTGTGCAAGTGTGGGCTGTGGAACATGTGAGAGCTGC 463  
DB 427 TGGCGCACCCCTGTGCAAGTGTGGGCTGTGGAACATGTGAGAGCTGC 463





QY 1419 TGCRAAACCCGAAACCGTTACATCTGCCAGTTTGCACAGAGACACATCTCCCGTGGGC 1478  
 |||||  
 Db 452 TGCRAAACCCGAAACCGTTACATCTGCCAGTTTGCACAGAGACACATCTCCCGTGGGC 393  
 |||||  
 QY 1479 CCAGGGTCTGAGGGCTGACACATGGCTCCCTCGCTGCGCTGCGCTGGGAGCAGCGCTGTC 1538  
 |||||  
 Db 392 CCAGGGTCTGAGGGCTGACACATGGCTCCCTCGCTGCGCTGGGAGCAGCGCTGTC 333  
 |||||  
 QY 1539 TTACTGTCTGCCACCTTGCACCAATGCCAAGGGCCAGGTTAAGACCACATCGCTCATCTCC 1598  
 |||||  
 Db 332 TTACTGTCTGCCACCTTGCACCAATGCCAAGGGCCAGGTTAAGACCACATCGCTCATCTCC 273  
 |||||  
 QY 1599 AAAGAGGTCTCAGACCTTGCACCAATGCCAAGGGCCAGGTTAAGACCACATCGCTCATCTCC 1658  
 |||||  
 Db 272 AAAGAGGTCTCAGACCTTGCACCAATGCCAAGGGCCAGGTTAAGACCACATCGCTCATCTCC 213  
 |||||  
 QY 1659 TGAGGGCCAGGGAGTGAGTGTAGAAAGAGCTGGGSCCTTCGCCCTGCTTTTGTATGGGA 1718  
 |||||  
 Db 212 TGAGGGCCAGGGAGTGAGTGTAGAAAGAGCTGGGSCCTTCGCCCTGCTTTTGTATGGGA 153  
 |||||  
 QY 1719 AGATGGGCTTCAATTAGATGGCGAAGAGGAGGACACCGCCAGTGTCCAAAAAGGCTGCT 1778  
 |||||  
 Db 152 AGATGGGCTTCAATTAGATGGCGAAGAGGAGGACACCGCCAGTGTCCAAAAAGGCTGCT 93  
 |||||  
 QY 1779 CTCCTCCACCTGGCCACACCTGTGGGCGACCGGAGCTTCCCTGTGGCATGAACCCAC 1838  
 |||||  
 Db 92 CTCCTCCACCTGGCCACACCTGTGGGCGACCGGAGCTTCCCTGTGGCATGAACCCAC 33  
 |||||  
 QY 1839 GGGGTATTAAATTTATGAATCAGCTCAAAAAA 1870  
 |||||  
 Db 32 GGGGTATTAAATTTATGAATCAGCTCAAAAAA 1

RESULT 2  
 AI307814/c  
 LOCUS  
 DEFINITION  
 tb28d11.x1 NCI\_CGAP\_Kid12 Homo sapiens cDNA clone IMAGE:2055669 3'  
 similar to TR:Q61830 Q61830 MANNOSE RECEPTOR, C TYPE 1 PRECURSOR ;,  
 mRNA sequence.

ACCESSION  
 VERSION  
 KEYWORDS  
 SOURCE  
 ORGANISM

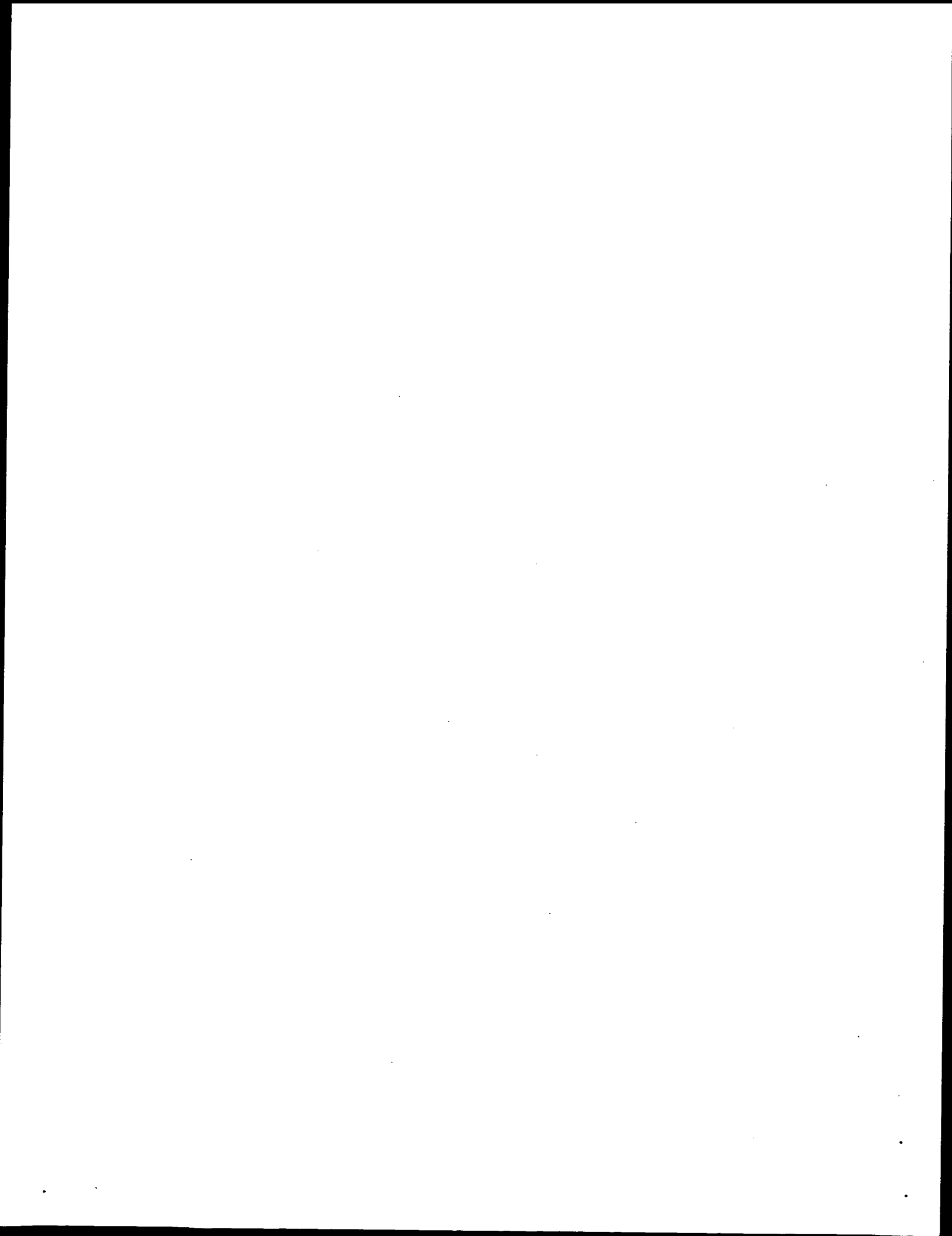
Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 1 (bases 1 to 617)  
 NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 Tumor Gene Index  
 Unpublished (1997)  
 Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-remail.nih.gov  
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
 Emmert-Buck, M.D., Ph.D.

CDNA Library Preparation: M. Bento Soares, Ph.D.  
 DNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
[www.bio.llnl.gov/bbrp/image/image.html](http://www.bio.llnl.gov/bbrp/image/image.html)  
 Insert Length: 725 Std Error: 0.00  
 Seq primer: -400P from Gibco  
 High quality sequence stop: 451.  
 Location/Qualifiers

FEATURES  
 source

1..617  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone\_lib="NCI\_CGAP\_Kid12"  
 /tissue\_type="2 pooled tumors (clear cell type)"  
 /lab\_host="DH10B"  
 /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with  
 a modified polylinker; Site\_1: Not 1; Site\_2: Eco RI;  
 Plasmid DNA from the normalized library NCI\_CGAP\_Kid5 was  
 prepared, and ss circles were made in vitro. Following HAP  
 purification, this DNA was used as tracer in a subtractive  
 hybridization reaction. The driver was PCR-amplified cDNAs  
 from a pool of 5,000 clones made from the same library  
 (cloneIDs 1323912-1325831, 1471368-1472903 and  
 1492104-1493255). Subtraction by Bento Soares and M.  
 Fatima Bonaldo."  
 BASE COUNT 118 a 182 c 179 g 138 t

Query Match 27.3%; Score 512; DB 9; Length 617;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-161;  
 Matches 512; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1359 GGGTTGGCACTGGCTGAGCTGAGGCTCAGCTGCTCAACTGGAACGACCGC 1418  
 |||||  
 Db 512 GGGTTGGCACTGGCTGAGCTGAGGCTCAGCTGCTCAACTGGAACGACCGC 453



|    |     |   |
|----|-----|---|
| XX |     | Human T139 protein coding sequence.   |
| DE | XX  | Human; T139 polypeptide; immune system disorder; spermatogenesis; ss;   |
| KW | XX  | sperm-egg fusion; testicular disorder; gene mapping.  |
| OS | XX  | Homo sapiens.   |
| PN | XX  | WO9954343-A2.   |
| PP | XX  | 28-OCT-1999.  |
| PD | XX  | 23-APR-1999; 99WO-US08896.  |
| PF | XX  | 23-APR-1998; 98US-0065661.  |
| PR | XX  | (MILL-) MILLENNIUM BIOTHERAPEUTICS INC.   |
| PA | XX  | Holtzman D;   |
| PI | XX  | WI; 1995-633969/54.   |
| DD | XX  | P-PSDB; AAY1266.  |
| DR | XX  |   |
| PT | XX  | Human T139 nucleic acids and polypeptides, useful for treating proliferative disorders associated with aberrant T139 expression or activity   |
| PT | XX  | Claim 2; Page 114; 115pp; English.  |
| CC | XX  | This represents the coding sequence of the human T139 polypeptide. The T139 polypeptide can be expressed by standard recombinant methodology. The T139 CDNA insert is deposited with ATCC under accession number 98694. The T139 polypeptides and polynucleotides can be administered therapeutically or prophylactically to treat/prevent disorders associated with aberrant T139 expression or activity, especially proliferative or differentiative disorders, e.g. of the immune system. They can be used to modulate spermatogenesis, e.g. as a contraceptive to decrease spermatogenesis or to treat disorders related to defects in sperm-egg fusion. They may also be useful to treat testicular disorders e.g. testicular cancer. The polypeptides may be used to identify selectively binding compounds which may be useful for detecting the polypeptides in samples; and identifying compounds modulating polypeptide activity. The polynucleotides are useful for producing probes or primers that selectively hybridize to the polynucleotides which may be useful for detecting the polynucleotides in a sample, gene mapping; identifying cells or tissues expressing aberrant T139 levels; determining if a gene has been mutated or deleted to identify subjects at risk for or having a disorder associated with T139 expression or activity and to monitor therapeutic interventions; and for producing antisense sequences for therapeutic administration to modulate/prevent T139 expression. |
| SQ | XX  | Sequence 1338 BP; 259 A; 420 C; 413 G; 246 T; 0 other;  |
|    |     | Query Match .68.9%; Score 1293; DB 20; Length 1338;   |
|    |     | Best Local Similarity 97.7%; Pred. No. 5.2e-301;  |
|    |     | Matches 1333; Conservative 0; Mismatches 5; Indels 27; Gaps 1;  |
| QY | 123 | ATGCTGCATCCAGAGACCTCCCCTGGCGGGGGCATCTCCTGGTGTGTCCTTGCCCTC 182<br>     <br>1 ATGCTGCATCCAGAGACCTCCCCTGGCGGGGGCATCTCCTGGTGTGTCCTTGCCCTC 60  |
| Dd | 183 | CTTTGGCACCACTGGGCAGAGGTGGCCACCACCGATGCAGAGCAGGCTCCGATGCC 242<br>     <br>61 CTTTGGCACCACTGGGCAGAGGTGGCCACCACCGATGCAGAGCAGGCTCCGATGCC 120  |
| QY | 243 | GGAGCCCTGAACGAAGAGAGATTCTTGCTCTCTCCCTGCACAACCGCCTGGCAGC 302<br>     <br>121 GGAGCCCTGAACGAAGAGAGATTCTTGCTCTCTCCCTGCACAACCGCCTGGCAGC 180   |
| QY | 303 | TGGGTCCAGCCCCCTCGCGCTGCATCGGAGGCTGGACTGCAGCTGACGCTGGCCCAA 362<br>     <br>181 TGGGTCCAGCCCCCTCGCGCTGCATCGGAGGCTGGACTGCAGCTGACGCTGGCCCAA 240   |
| QY | 363 | CTGGCTCAACCGAGGCGCCCTCTGTGGATCCCAACCGGAGCCTGGCGCTG 422<br>     <br>241 CTGGCTCAACCGAGGCGCCCTCTGTGGATCCCAACCGGAGCCTGGCGCTG 300   |



RESULT 4  
 AAY41266  
 ID AAY41266 standard; Protein: 446 AA.  
 XX  
 AC  
 AAY41266;  
 XX  
 DT 31-JAN-2000 (first entry)  
 DE Human T139 protein.  
 DE  
 KW Human; T139 polypeptide; immune system disorder; spermatogenesis;  
 KW sperm-egg fusion; testicular disorder; testicular cancer; gene mapping.  
 XX  
 OS Homo sapiens.  
 PN WO9954343-A2.  
 XX  
 PD 28-OCT-1999.  
 XX  
 PF 23-APR-1999; 99WO-US08896.  
 XX  
 PR 23-APR-1998; 98US-0065561.  
 XX  
 PA (MILL-) MILLENNIUM BIOTHERAPEUTICS INC.  
 PA  
 PI Holtzman D;  
 XX  
 DR WPI; 1999-633969/54.  
 DR N-PSDB; AAZ23299, AAZ23300.  
 XX  
 PT Human T139 nucleic acids and polypeptides, useful for treating  
 PT proliferative disorders associated with aberrant T139 expression or  
 PT activity  
 XX  
 PS Claim 9; Fig 1; 115pp; English.

This represents a human T139 polypeptide. The T139 polypeptide can be expressed by standard recombinant methodology. The T139 cDNA insert is deposited with ATCC under accession number 98694. The T139 polypeptides and polynucleotides can be administered therapeutically or prophylactically to treat/prevent disorders associated with aberrant T139 expression or activity, especially proliferative or differentiative disorders, e.g. of the immune system. They can be used to modulate spermatogenesis, e.g. as a contraceptive to decrease spermatogenesis or to treat disorders related to defects in sperm-egg fusion. They may also be useful to treat testicular disorders e.g. testicular cancer. The polypeptides may be used to identify selectively binding compounds which may be useful for detecting the polypeptides in samples; and identifying compounds modulating polypeptide activity. The polynucleotides are useful for producing probes or primers that selectively hybridize to the polynucleotides which may be useful for detecting the polynucleotides in a sample, gene mapping; identifying cells or tissues expressing aberrant T139 levels; determining if a gene has been mutated or deleted to identify subjects at risk for or having a disorder associated with T139 expression or activity and to monitor therapeutic interventions; and for producing antisense sequences for therapeutic administration to modulate/prevent T139 expression.

Sequence 446 AA;  
 Query Match 96.8%; Score 2447.5; DB 20; Length 446;  
 Best Local Similarity 97.1%; Pred. No. 2.4e-177;  
 Matches 442; Conservative 1; Mismatches 3; Indels 9; Gaps 1;

QY 1 MLHPETSPGRGHLAVLLALGTTWAEVWPQEQAPMAGALNRKESFLLSLHNLRS 60  
 DB 1 MLHPETSPGRGHLAVLLALGTTWAEVWPQEQAPMAGALNRKESFLLSLHNLRS 60

QY 61 WVQPPADMRRLDWSLSLAQAAARALCGIPTPSLASGLWFTLOVGNWMLLPAGLASF 120  
 DB 61 WVQPPADMRRLDWSLSLAQAAARALCGIPTPSLASGLWFTLOVGNWMLLPAGLASF 120  
 QY 121 VEVYSLWFAEGORYSHAAAGECARNATCTHYTQLVWATSSQLGCGRHLCISAGQTAIEAFVC 180  
 DB 121 VEVYSLWFAEGORYSHAAAGECARNATCTHYTQLVWATSSQLGCGRHLCISAGQTAIEAFVC 180  
 QY 181 AYSPGGNWEVNGKTIIPYKKGAWCSLCTASVSGCFKAWDHAGGLCEVPRNPRCWSQNHG 240  
 DB 181 AYSPGGNWEVNGKTIIPYKKGAWCSLCTASVSGCFKAWDHAGGLCEVPRNPRCWSQNHG 240  
 QY 241 RLNISTCHCHCPPGYTGRCYQVRCSLQCVHGRFREBECSVCVDIGYGGAQCATKVHFFPH 300  
 DB 241 RLNISTCHCHCPPGYTGRCYQVRCSLQCVHGRFREBECSVCVDIGYGGAQCATKVHFFPH 300  
 QY 301 TCDLRIDGCFWVSSSEADTYIYARMKQKGGVLAQIKSKQVQDILAFYLGRLTETNEVT 360  
 DB 301 TCDLRIDGCFWVSSSEADTYIYARMKQKGGVLAQIKSKQVQDILAFYLGRLTETNEVT 360  
 QY 361 DSDFETRNFWIGLTYKTAKDSFRWATGEHQAFISFATGQPDNHLVWLSAAMGFGNCVEL 420  
 DB 361 DSDFETRNFWIGLTYKTAKDSFRWATGEHQAFISFATGQPDNHLVWLSAAMGFGNCVEL 420  
 QY 421 QASAAFNWINDORCKTRNRNYICQPAQEHISRMPGGS 455  
 DB 412 QASAAFNWNNORCKTRNRNYICQPAQEHISRMPGGS 446



```

US-09-404-879A-321
RESULT 1
Sequence 321, Application US/09440879A
Patent No. 6468546
GENERAL INFORMATION:
Applicant: Mitcham, Jennifer L.
Applicant: King, Gordon E.
Applicant: Algate, Paul A.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF OVARIAN CANCER
FILE REFERENCE: 210121.462C2
CURRENT APPLICATION NUMBER: US/09/404,879A
CURRENT FILING DATE: 1999-09-24
NUMBER OF SEQ ID NOS: 393
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 321
LENGTH: 690
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(690)
OTHER INFORMATION: n = A,T,C or G
US-09-404-879A-321
50.7%; Score 672.8; DB 4; Length 690;
Best Local Similarity 99.3%; Pred. No. 5.9e-153;
Matches 685; Conservative 0; Mismatches 4; Indels 1; Gaps 1;
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1 (bases 1 to 7215)  
Fernandez-Salguero,P., Hoffman,S.M., Cholerton,S., Mohrenweiser,H.,  
Rauio,H., Rautio,A., Pelkonen,O., Huang,J.D., Evans,W.E.,  
Idle,J.R., et al.  
A genetic polymorphism in coumarin 7-hydroxylation: sequence of the  
human CYP2A6 genes and identification of variant CYP2A6 alleles  
Am. J. Hum. Genet. 57 (3), 651-660 (1995)  
95397851  
7668294  
2 (bases 1 to 7215)  
Fernandez-Salguero,P.  
Direct Submission  
Submitted (01-MAR-1995) Pedro Fernandez-Salguero, National  
Institutes of Health, 9000 Rockville Pike, Bethesda, MD 20894, USA  
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Query Match  
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Db 1605 GGCACAGAGAGAGCGCAGGAGG 1585

